

Undergraduate Bulletin 2015-2016







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ASSUMPTION UNIVERSITY "Educating Intelligences and Active Minds to Change the World"

UNDERGRADUATE BULLETIN 2015 - 2016

usiness Administration | Economics | Arts | Nursing Science | Science and Technology | Engineering Communication Arts | Law | Biotechnology | Architecture | Music



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UNIVERSITY CALENDAR ACADEMIC YEAR 2015

Month	Activities	Undergraduate	Graduate
January	New Year's Eve (Holiday) GSPsy: Orientation Day	1	1
	Instruction Begins	5	
	GSPh, GSPsy, GSLaw, and MSFE: Instruction Begins		5
	PhD.BA: Instruction Begins for Semester 2/2014 (Batch8-9)		5
	GSB: Registration for New students (ID 572xxxx) GSEng: Registration for new MA in ELT & MA in PEMS student (ID 572 xxxx)		5-10
	GSB: Induction Day for student admission ID 572-xxxx		10
	GSEd: First Orientation		10
	GSB, GSEd, GSSc & GSEng: Instructions begins for Trimester 2/2014		
	(Weekday Program) GSPh and PhD.BA: Last day for late registration and adding classes,		12
	last day to withdraw without record and to have 50% of tuition fees refunder	d	13
	Last day for late registration and adding classes,		
	last day to withdraw without record and to have 50% of tuition fees refunded	d 13	
	GSB: Instructions begins for trimester 2/2014 (Weekend Program) Retrieve and download registered student namelists via internet	19	17
	GSeL and GSPsy: Last day to Late registration, Adding/	15	
	Changing with fine and withdrawing courses		19
	GSEd and GSEng: Last day for late registration and adding classes,		
	last day to withdraw without record and to have 50% of tuition fees refunder GSB and GSSc: Last day to late register, adding/changing with fine and	d	20
	withdrawing courses withdraw without record and to have 50% of tuition fe	es refunded	23
		concranaeu	20
February	GSEng: Registration for new PhD in ELT		2
	GSeL: Tentative Research Workshop (MSMGT)		8
	Submission of Mid-term Examination Papers GSSc: Mid-term Examination	9	9
	GSeL: Comprehensive Examination (Core Courses) with Proctor		15
	GSSc: Written Comprehensive Examination (All Programs)		15
	GSPsy: Mid-term Examination		16-23
	Ash Wednesday GSB and GSSc: Freshmen seminar (for 572-xxxx students)	18	18 21-22
	GSB and GSSc: Mid-term Examination period		23-28
	Last day of classes before Midterm Exam	28	
14-1			
March	PhD.BA: Qualifying Exam 2014 GSPh: Mid-term Examination		1 2-6
	PhD.BA and MSFE: Midterm Examination Period for Semester 2/2014		2-8
	GSB: Mid-term Exams		2-9
	Mid-term Examination	2-12	
	Makha Bhucha Day (Holiday - no classes) GSB: Written Comprehensive Examination (SM)	4	4
	Classes resume	13	0
	GSeL: Midterm Examination Period M.S.ICT (On Campus/ Test Center)		14-15
	GSB: Written Comprehensive Examination (FM)		15
	GSEng: Written Comprehensive Examination GSB: Pre-registration period for May trimester (Online)		16 17-18
	GSPsy: Entrance examination and interview		17-18
	GSEng: Oral comprehensive exam		20
	GSPsy: Final examination		23-30
	Mid-term grades due	27	20
	PhD.BA: Research Forum 2015 - 1st round (Batch 3-8) GSPsy: Registration Period (till 10 April 2015)		29 30
	GSEng: Final examination trimester 2/2014		30
April	Submission of Final Examination Papers	1	
	Good Friday Chakri Memorial Day (Holiday - no classes)	3	3
	GSB: Application Deadline		10
	Songkrn-Festival (Holidy - no classes)	13-15	13-15
	GSB: Submission of final exam papers		16-21
	GSB: Last day to withdraw with "W" grade GSSc: Submission final Master Project for 2/2014 (All Programs)		17 18
	GSPsy: Orientation Day		18
	GSPsy: Instruction Begins		20
	GSB: Final Exams		20-27
	GSSc: Period Final Defense Master Project (All Programs) GSB: Registration payment period for May 2015 Trimester		20-24 23-30
	GSB and GSSc: Final Examination Period		23-30
	GSeL: Tentative Final Examination Period (Hua - Mak Campus)		25-26
	GSPh: Final Examination (till May 1, 2015)		27
	Last day to withdraw with 'W'	30	
May	GSSc: Registration and payment period for Summer 2014 Session		1-9
	GSeL: Tentative Final Examination Period (Hua - Mak Campus)		2-3
	PhD.BA & MSFE: Final Examination Period for Semester 2/2014		4-10

Month	Activities	Undergraduate	Graduate
May	Corportion Day (Holiday, no classes)	5	5
ividy	Coronation Day (Holiday - no classes) GSB: Oral Comprehensive Examination Period	5	8
	GSB: Induction Day for student admission ID 573-xxxx		9
	GSB and GSSc: Instruction Begins		11
	GSLaw: Final Examination		14-29
	MSFE: Registration Period for Summer/2014 [Batch 6]		14-15
	Final Examination (till May 29, 2015)	14	
	GSB: Instructions begins for trimester 3/2014 (For Weekend Program)		16
	GSeL: Pre-Registration Period (M.S.MGT, M.S.ICT, M.Ed.T&T) for Summer 2014 Session		18-24
	GSB: MBA Written Entrance Examination (English)		26
	GSeL: Registration and Payment Period (M.S.MGT, M.S.ICT, M.Ed.T&T)		26-31
	Semester ends	31	
June	GSEd: June 2015 Session begins		1
	June 2015 Session begins GSPsy: Mid-term Examination	1	1-8
	GSSc: Registration payment period for Comprehensive examination		1-20
	GSEng: Application Deadline		2
	GSEng: Registration for new student MA in ELT and MA PEMS trimester 3/201	14	5
	GSB: Written Comprehensive Examination (MM)		7
	GSEd, GSeL, GSEng, and GSLaw: Instruction Begins		8
	Instruction Begins	8	
	Last day for late registration and adding classes, last day to withdraw withou record and to have 50% of tuition fees refunded	11	
	GSEd: Last day for late registration and adding classes, last day to withdraw	11.	
	without record and to have 50% of tuition fees refunded		11
	Retrieve and download registered student namelists via internet	12	
	GSB: Freshmen Seminar		13-14
	GSeL: Last day for Late Registration		15
	Submission of Mid-term Examination Papers	19	
	Last day of classes before Mid-term Examination GSEng: Last day for late registration and adding classes, last day to withdraw	19	
	without record and to have 50% of tuition fees refunded		19
	Mid-term Examination (till June 23, 2015)	22	
	GSSc and GSB: Mid-term Examination		22-29
	Classes resume	24	
	GSSc and GSB: Written Comprehensive Examination (GM 1: MA, MIS, ME)		28
	Submission of Final Examination Papers	29	
July	Mid-term grades due	1	
sul,	Last day to withdraw with "W" grade	3	
	GSeL: Midterm Examination Period		5
	GSPsy: Final Examination		6-13
	GSeL: Pre-Registration Period for next semester (1/2015)		10-19
	Last day of classes before Final Examination	14	
	Final Examination GSeL: Tentative Research Workshop (MSMGT)	15-17	19
	GSB: Online Pre-registration period for September trimester		21-22
	GSeL: Registration and Payment Period		21-31
	GSB: Registration period for Oral Comprehensive Examination		27
	GSLaw: Final Examination		27-29
	Asalha Bhucha Day (Holiday - no classes)	30	30
	Buddhist Lent Day (Holiday - no classes) Session and Academic Year 2014 ends	31	31
	GSEd: Session and Academic Year 2014 ends	31	31
	Used Dession and Academic real 2014 Clius		51
August	Academic Year 2015 and August 2015 Semester begins	1	1
	GSB: Oral Comprehensive Exam Period for MBA students		3
	GSSc: Instruction begin period 1/2015		7
	GSEd: Orientation		8
	Instruction begins GSLaw, GSeL & GSEd: Instruction begins	10	10
	H.M. the Queen's Birthday (Holiday - no classes)	12	12
	Assumption of the Blessed Virgin Mary	15	15
	GSSc: Period final defense master project		17-21
	GSEd: Last day for late registration and adding classes, last day to withdraw		
	without record and to have 50% of tuition fees refunded		19
	Last day for late registration and adding classes, last day to withdraw without record and to have 50% of tuition fees refunded	10	
	GSB: Final Examination Period	19	21
	GSB: Registration ePayment for 1/2015 Trimester		21
	GSSc: Final Examination period		24-28
	GSSc: Registration and tuition fee payment (till September 4, 2015)		24
	Retrieve and download registered student namelists via internet	24	
	GSB: Final Exams		24-31
	GSB: Induction Day for student admission ID 581-xxxx		29

Month	Activities	Undergraduate	Graduate
September	GSB: Instructions begins for trimester 1/2015 (Weekend Program)		5
	Submission of Mid-term Examination Papers	7	
	GSSc: Instruction begins period 1/2015		7
	GSB and GSEng: Applicaion Deadlines		11
	GSB: Last day to late register, adding/changing with fine and		
	withdrawing courses without "W" on the transcript &		
	to refund 50% of tuition fee (all MBA Programs)		13
	GSeL: Comprehensive Examination (Core Courses) with Proctor		14
	GSEng: Register new student trimester 1/2015 GSSc: Last day to late register, adding/changing with fine and		20
	withdrawing courses without "W" on the transcript &		
	to refund 50% of tuition fee		21
	GSEng: Instruction begins		21
	GSB: Induction Day for student admission ID 581-xxxx		28
October	Last day of classes before Mid-term Examination	2	
	GSeL: Midterm Examination Period (M.S.MGT and M.Ed. T&T		
	(Online/take home)		3-4
	Mid-term Exam	5-14	
	GSB: Freshmen Seminar (for 581-xxxx students)		10
	GSeL: Midterm Examination Period M.S.ICT (On Campus/Test Center)		10-11
	Classes resume GSB: Freshmen Seminar	15	17-18
	GSB and GSSc: Mid-term Examination period		19-26
	King Rama V Memorial Day (Holiday - no classes)	23	23
	GSSc: Written comprehensive examination (All Programs)		25
	GSEng: Eligible student who take Written Comprehensive Examination		26
	Mid-term grades due	30	
November	Submission of Final Examination Papers	9	2
Horen ber	GSB: MBA Online Pre-registration period for trimester 2/2015		-
	(Only MBA Day/Evening Students)		17
	Last day to withdraw with 'W'	20	
	GSEng: Last day for register in Written Comprehensive Examination (2/2014)		20
	Commencement Exercises of class XLIII (no classes)	21	
	GSB: Oral comprehensive exam (till December 13, 2015) GSeL: Tentative Final Examination Period (Hua - Mak Campus)		21 21-22
	Loy Kratong Day	25	21-22
	GSEng: Last day for submit project for Oral Comprehensive (2/2014)		27
	GSB: Late Mid-term Examination Day		29
	GSB: Registration period for Oral Comprehensive Examination		30
	GSeL: Semester Ends		30
December	Last day of classes before Final Examination	1	
	GSEng: Registration for new PhD in ELT		1
	GSeL: Pre-Registration Period for next semester (2/2015)		1-10
	H.M. the King's Birthday (Holiday - no classes) GSEng: Oral comprehensive exam	5	5 4
	GSLaw: Last day of classes before Final Examination		4
	Final Examination	7-23	
	GSLaw: Final Examination		7-18
	GSB: Submission of final exam papers		8-14
	Thai Constitutions Day (Holiday - no classes)	10	10
	GSeL: Registration Period for next semester (2/2015) GSEng: Final examination trimester 1/2015		12-21
	GSB: Final Examination Period		14
	GSSc: Final Examination for 1/2015		21-25
	Christmas Eve	24	24
	Christmas Day (Holiday)	25	25
	GSSc: Registration and tuition fee payment period 2/2015		
	(till January 9, 2014)	55	31
	Semester ends / New Year's Eve (Holiday)	31	31

UNIVERSITY CALENDAR ACADEMIC YEAR 2016

Month	Activities	Undergraduate	Graduate
January	New Year's Day (Holiday)	1	1
	January 2016 Semester begins	1	
	Instruction begins	4	
	GSEd, GSLaw, and GSeL: Instruction begins		4
	GSB: Registration for New students (ID 582xxxx)		4
	GSEng: Registration for new MA in ELT & MA in PEMS student (ID 572 xxxx)		8
	GSB: Induction Day for student admission ID 582-xxxx GSEd: Orientation		9
	GSB, GSSc, and GSEng: Instructions begins		11
	Last day for late registration and adding classes, last day to withdraw without	ut	
	record and to have 50% of tuition fees refunded	14	
	GSEd: Last day for late registration and adding classes, last day to withdraw		
	without record and to have 50% of tuition fees refunded		14
	Retrieve and download registered student namelists via internet	18	
	GSB: Final examination grades release for 1/2015		22
February	Submission of Mid-term Examination Papers	1	
	GSEng: Registration for new PhD in ELT		5
	GSeL: Tentative Research Workshop (M.S.MGT)		7
	Ash Wednesday	10	10
	GSB: Freshmen Seminar (for 582-xxxx students)		20-21
	Makha Bhucha Day (Holiday - no classes)	22	22
	GSB: Mid-term Examination period		23-26 27-28
	GSeL: Midterm Examination Period (Online/take home)		27-28
March	Last day of classes before Midterm Exam	1	
	Mid-term Examination	2-11	2.44
	GSB: Mid-term Exams		2-11 5-6
	GSeL: Midterm Examination Period (On Campus/Test Center)		5-6
	GSEng: Last day for submit project for Oral Comprehensive (2/2015) Classes resume	14	11
	GSB: Pre-registration period for May trimester (Online)	14	17-19
	GSEng: Oral comprehensive exam		18
	GSB: Oral comprehensive exam (till April 12, 2016)		19
	Palm Sunday	20	20
	Good Friday	25	25
	Mid-term grades due	25	
	Easter	27	27
	GSEng: Final examination trimester 2/2015		28
April	Chakri Memorial Day (Holiday - no classes)	6	б
	GSB: Application deadline		9
	Submission of Final Examination Papers	11	12.15
	Songkran-Festival (Holiday - no classes) GSB: Final Exams (till April 26, 2016)	13-15	13-15 21
	GSEL: Tentative Final Examination Period (till May 1, 2016)		23
	GSB: Registration payment period for May 2016 trimester		25-30
	Last day to withdraw with 'W'	25	
	GSB: Final examination period		25-30
	St. Louis Marie De Montfort Feast Day	28	28
	Last day of classes	30	
May	Final Examination	2-18	
	Coronation Day (Holiday - no classes)	6	6
	Ascension of Jesus	6	6
	GSB: Oral Comprehensive Examination Period for MBA students		7
	GSB: Induction Day for student admission ID 583-xxxx		7
	GSB: Instruction Begins		9
	GSLaw: Final Examination	10	9-20
	Pentecost	15	15
	GSB: Instructions begins for trimester 3/2015 (Weekday Program)	20	16
	Wisakha Bhucha Day (Holiday) GSB: Registration e-payment for 3/2015 trimester	20	20
	GSB: MBA Written Entrance Examination (English)		21
	GSB: Semester ends		31
	Semester ends	31	51

Month	Activities	Undergraduate	Graduate
June	June 2016 Session begins	1	
June	Instruction Begins	6	
	Last day for late registration and adding classes, last day to withdraw		
	without record and to have 50% of tuition fees refunded	9	
	Retrieve and download registered student namelists via internet	10	
	GSB: Freshmen seminar		11
	Submission of Mid-term Examination Papers	13	
	Last day of classes before Mid-term Examination	17	
	Mid-term Examination	20-21	
	Classes resume	22	
	GSB: Mid-term Examination		25-29
	Mid-term grades due	29	
July	Submission of Final Examination Papers	4	
July	Last day of classes before Final Examination	13	
	Final Examination	14-18	
	Asalha Bhucha Day (Holiday - no classes)	19	19
	Buddhist Lent Day (Holiday - no classes)	20	20
	GSB: MBA Online Pre-registration period for trimester 1/2016		23
	GSB: Pre-registration period for September trimester (Online)		23
	GSB: Oral comprehensive exam		27
	GSB: Late mid-term examination day		28
	GSB: Registration period for Oral Comprehensive Examination		28
	Academic Year 2015 ends	31	







GENERAL INFORMATION



HISTORY & DEVELOPMENT

Assumption University was initially originated from Assumption Commercial College in 1969 as an autonomous higher education institution under the name of Assumption School of Business. In 1972, with the approval of the Ministry of Education, it was officially established as Assumption Business Administration College or ABAC. In May 1975, it was accredited by the Ministry of Education. In 1990, it was granted new status as "Assumption University" by the Ministry of University Affairs.

The University is a non-profit institution administered by the Brothers of St. Gabriel, a worldwide Catholic religious order, founded in France in 1705 by St. Louis Marie De Montfort, devoted to education and philanthropic activities. The congregation has been operating many educational institutions in Thailand since 1901.

The University is an international community of scholars, enlivened by Christian inspiration, engaged in the pursuit of truth and knowledge, serving the human society, especially through the creative use of interdisciplinary approaches and cybertechnology.

MOTTO: LABOR OMNIA VINCIT

PHILOSOPHY

In loyalty to its Christian mission, Assumption University stands for

- the inculcation of respect for the three institutions of the Nation Religion, Country, the King and a democratic way of life.
- the belief that a man justifies himself and his existence by the nobility of his work: LABOR OMNIA VINCIT
- the commitment to be a light that leads men towards the true source of all knowledge and life: LUX VERITAS

OBJECTIVES AND POLICIES

Assumption University exists for the main purpose of serving the nation by providing scientific and humanistic knowledge, particularly in business education and management science through research and interdisciplinary approaches.

To this end, it aims at forming intellectually competent graduates who:

- are morally sound, committed to acting justly, and open to further growth.
- appreciate freedom of expression, and are imbued with attitudes and ideologies through a carefully integrated curriculum of ethics,
- science, languages and business management. • achieve academic excellence through hard
- work, critical thinking, and effective decisionmaking.

ACCREDITATION

The University is fully accredited by Commissions on Higher Education. Its graduates enjoy the privileges accorded to State University graduates. Its academic standards are accepted by the Civil Service Commission of Thailand.

Assumption University is recognized in the USA and other countries and transfer of credits from the University is accepted abroad. Graduates from the University can pursue advanced Degrees anywhere in the world. Assumption University is listed in the Handbook of Universities and other Institutions of the INTERNATIONAL ASSOCIATION OF UNIVERSITIES in Paris, France.

The University is recognized by:

- The Association of Christian Universities and Colleges in Asia (ACUCA)
- The Association of Southeast Asian Institution of Higher Learning (ASAIHL)
- The International Federation of Catholic Universities (IFCU)

Assumption University of Thailand | General Information



MEDIUM OF INSTRUCTION

English is the officially approved medium of instruction at Assumption University. Five courses are in the Thai language but only for Thai speaking students. Students whose native tongue is not Thai follow the same courses in English.

NON-DISCRIMINATION

Assumption University does not discriminate in its programs and activities against any person because of race, color, ethnic origin, ancestry, religion, age or sex. This non-discrimination policy applies to admissions, employment, treatment of individuals, and access to programs. Inquiries concerning this policy may be directed to the Office of the University Registrar.

FACILITIES AND SERVICES



CAMPUSES

Assumption University maintains two campuses: the original campus located at Hua Mak in the city, and the new campus at Suvarnabhumi, some thirty minutes from the South of the city campus and twenty minutes from Suvarnabhumi Airport on the way to the Eastern Seaboard. The original campus is a compact, vertical campus comprised of 17 buildings with the tallest having a total of 16 floors. A small lake surrounded by lush gardens and seating is a focal point of beauty and tranquility. Food, convenience, and service shops to support student needs surround the campus. This will become the home of the postgraduate faculties.

The Suvarnabhumi Campus, constructed as a "University in a Park", comprises 200 acres of a beautifully landscaped assembly of mixed architecture surrounded by lush tropical gardens and trees. Designed to host the university's undergraduate degree programs, it offers everything: a meeting/exhibition center, hotel, non-coeducational dormitories, a magnificent chapel, a museum, eleven academic halls, and much more. The centerpiece of the campus is the Cathedral of Learning, a 39-story tower, which houses student support services, the library, reception halls, seminar rooms and offices. Transportation between the two campuses is convenient and inexpensive. Shuttles run throughout the day between various points in Bangkok and the Suvarnabhumi Campus.

LIBRARIES

Each Assumption University campus maintains a large library with over 500,000 volumes total and periodicals. In addition to the study facilities provided for students and instructors in the main libraries, there are reading areas in many other locations. These include the Catholic Education Council library and the Catholic library.

HEATH SERVICES

Assumption University provides health services on both campuses. Students are responsible for making arrangements for their own health care, except in cases of emergency. Registered nurses are on duty Monday through Friday from 8.00 a.m. to 4.30 p.m. and are available for emergencies, first aid, and medical counseling.

Students, faculty and staff members with medical problems are encouraged to keep their files active at the Health Center regarding the nature of their problems so that appropriate action can be taken in the event of an emergency.

FOOD SERVICE AND CAFETERIAS

Catering facilities are available to faculty, staff and students throughout both campuses. Contractoroperated facilities are in operation daily from 7.00 a.m. to 8.00p.m. (Hours may change during semester breaks).

THE RESEARCH INSTITUTE ASSUMPTION UNIVERSITY (RIAU)

The Research Institute of Assumption University (RIAU), originally known as the Center for Research in Business or CRIB, has been serving the Thai business community and international corporations since it was established in 1982. Since its inception, the CRIB has continued to grow into other research areas in response to demands for services. The center began by conducting social science research and in 1993, was recognized and known as the Center for Research in Business and Social Science (CRIB & SSc.). In 1998, the center was incorporated into the Research Institute of Assumption University (RIAU). This organizational change reflects the advancement of information technology as well as the academic diversity of research work conducted by the CRIB & SSc.

Research Services: a present, the RIAU includes four major functional areas: business research, social science research, educational research and information systems research.

OFFICE OF INFORMATION TECHNOLOGY SERVICES

The Assumption University ITS Center strives to acquaint students with the use of computers as tools for working with large quantities of information in high technology environments. Its general activities are supervised by the Director of the ITS Center. In addition to supplying instruction in the use of computers to students and faculty, the Center also assists with classwork and research activities involving complex computations and intricate data processing.

PUBLICATION

The AU Press prints all of the University publications such as the AU Journal, Newsletter, etc., and offers opportunities and facilities for publication of outstanding research papers as an incentive for both faculty and students to conduct research and to publish reports.



BOOKSTORES

Bookstores on each campus provide a wide range of magazines, periodicals, educational equipment, textbooks and professional books usually not available at regular commercial bookstores. In addition, they offer a wide range of Thai style gifts for friends and visitors.

CAMPUS MINISTRY, CHAPEL AND RELIGIOUS CENTER

The Campus Ministry on each campus is designed for the Catholic community and makes use of the spacious and beautiful Chapels. The Religious Center is a multi-religion house of prayer, meditation, congregation, preaching, and for soul-searching pursuit of the true source of all knowledge and life. Space is provided for each community applying to establish a house of meditation and prayer.

SECURITY

Assumption University takes its responsibility seriously when it comes to protecting its students, its instructors and its facilities. At both campuses, teams of security staff are at every gate as well as throughout the campus to provide aid, to monitor activities and in general to provide for the well-being of everyone on campus.



ADMISSIONS AND FINANCIAL INFORMATION



ADMISSIONS

There are two modes of admission to Assumption University: transfer from an accredited university or college (see Transfer of Credits), and freshman admission. Admission to Assumption University is based on the student's personal and academic records/achievement. All available information is considered; including high school records, evidence of academic maturity and personal character, scores on standardized tests, extracurricular activities, and general contributions to school and community.

QUALIFICATIONS

Applicants must possess:

- M.6 certificate or High School grade 12 graduation diploma and transcript.
- If I.G.C.S.E/G.C.S.E./G.C.E "O" Level graduation diploma then at least 5 subjects with grades no less than "C" is required.
- If G.C.E "A" Level then at least 3 subjects with grades no less than "E" is required.
- If G.E.D. Certificate and Diploma
- If IB certificates then at least 5 subjects with grades no less than "4".
- Minimum first year university completion certificate and transcript (For applicants that graduated from the Philippines and Myanmar only).
- Other equivalent Diploma and Certificate that must be authorized by the Ministry of Education.
- Applicants must be free from infectious diseases that can hinder their study.
- Applicants must have good manners and testify to the university that they will be attentive, make the fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

DOCUMENTS AND FEES FOR APPLICATION

- A photocopy of M.6 Certificate or its equivalent.
- Two 3x4 cm. Photographs.
- Application fee of 500 Baht.
- Copy of Resident Registration (Thais Only)
- Copy of Identity Card (Thais Only)
- Copy of Passport (non-Thai)
- A copy of a name/surname change certificate, if applicable.

PLACEMENT TESTS AND INTERVIEWS

All applicants must take placement tests in English and/ or Mathematics. The English placement test is given to applicants whose native language is not English and/or those for whom the primary language of instruction has not been English and who did not produce the required TOEFL and IELTS scores. Some faculties and majors require additional tests and interviews. Some faculties and majors require additional test and interviews e.g. Music, Architecture, Communication Arts, and Nursing Science. Exceptions will be made on an individual basis.

EXEMPTION

The university will consider applications with a TOEFL score of 190 (CBT), 520 (PBT), 70 (iBT) and above or an IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the Mathematics Placement Test and Mathematics Intensive course or Pre-Calculus.

INTENSIVE COURSE POLICY

The university will consider applications with a TOEFL score of 500 (PBT), 70 (iBT) and above or an IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the Mathematics Placement Test and Mathematics Intensive course or Pre-Calculus.

NON-THAI APPLICANTS FROM NON-THAI HIGH SCHOOL

Accepted candidates will receive an acceptance letter. They must present this letter to the Royal Thai Consulate in their home country and obtain a Non-Immigrant ED visa with a 90-day permit. Tourist visas are not acceptable. Entering Thailand without the proper visa necessitates exit and reentry.

TRANSFER OF CREDITS

- Assumption University accepts transfer students provided that they are in good standing with the last institution attended, and that they meet admission standards. To insure proper processing of applications for admission, each candidate is asked to request each College or University previously attended for an official transcript and forward it to the Office of the University Registrar. The transfer of credits will be approved only under the following conditions:
- Must have at least a GPA of 2.00 out of 4.00 scale;
- The course was completed at an institution accredited by the Civil Service Commission;
- The course content is equivalent to that specified in the University's curriculum;
- The course must have been taken within 5 years prior to the time of application;
- Only a course with an earned grade of "C" or higher in a general education course or an earned grade of "B" or higher in a professional core course will be accepted as transfer credit;
- A maximum of 70 credits can be transferred. To expedite the process of transferring credits, one true copy of each previous tertiary institution's educational bulletin should be brought with the applicant.

FEES ARE AS FOLLOWS:

•	Matriculation fee (Thai students)	Baht	9,000
	(Non Thai students)	Baht	21,500
•	Physical Check up	Baht	400
•	Photograph	Baht	100
•	Au Newsletter	Baht	400
•	Life Insurance (per year)	Baht	150
•	Health Insurance (Non Thai student)		
	(per year)Baht	3,000	
•	Annual University fee	Baht	27,700
•	Tuition fee (per credit hour)		
•	General Education course	Baht	1,600
•	Professional course	Baht	2,000
•	Practicum course	Baht	2,500
•	Computer and Science Lab fee		
	(per hour)	Baht	1,100
•	Intensive/Pre course		
	(No credit/study period is		
	Equal to credit hour)	Baht	1,600
•	Computer Network (per year)	Baht	2,400
•	Intensive English Textbook	Baht	2,000
•	Air-condition fee (per hour)	Baht	50
•	Summer Session fee	Baht	2,500

Remarks:

1. Item 1-4 are paid once only as part of

Enrollment and Intensive Fees. (see table on the next page)

2. Fees are subject to change without prior notice.

			1 st Year			2 nd Year			3 rd Year		4 5	4 th Year	ъ 5	Year	Total
Faculty/Department	Enrollmen Intensive Cour	1 st Semester	2 nd Semester	Summer 1	1 st Semester	2 nd Semester	Summer 2	1 st Semester	2 nd Semester	Summer 3	1 st Semester	2 nd Semester	1 st Semester	2 nd Semester	(Baht)
Business Administration	31,185	55,475	61,575	1	59,075	57,475	ı	60,225	55,525	,	55,525	49,775	,		485,835
Business Economics	31,185	54,875	65,175	ı	60,875	62,475	1	53,725	53,725		55,525	56,525		,	494,085
Arts - Business English	31,185	50,625	53,875	1	57,075	57,475	1	55,525	56,275	1	55,525	55,525	,	,	473,085
Arts - Business French	37,785	61,875	65,175	,	60,175	61,975		53,725	55,525		55,525	48,775		•	500,535
Arts - Business Chinese	37,785	62,575	69,025	,	64,225	66,025	ī	62,275	55,525	ï	55,525	51,925	ę	ı	524,885
Arts - Business Japanese	37,785	64,125	65,625	1	64,225	66,025		62,275	54,525	4	55,525	45,175			515,285
Arts - Chinese for Economy and Trade	24,585	73,875	72,875	t	72,875	72,875	ı.	70,725	70,725	ī	55,575	52,825	ж	,	566,935
Music - Music Business	34,485	75,325	73,625	1	77,625	77,625	1	73,875	60,925	9,250	54,125	54,125		•	590,985
Music - Music Performance	34,485	76,975	77,775	1	75,475	77,875	ı	69,925	72,125	1	59,175	58,675		•	602,485
Nursing Science	24,585	67,025	73,325	22,200	70,625	71,925	21,550	61,675	66,325	20,000	68,275	55,075	,	,	622,585
Science and Technology - Information Technology	24,585	60,775	71,025		71,725	69,725	ı	61,225	61,225	ĸ	67,675	56,275	ŗ	,	544,235
Science and Technology - Computer Science	24,585	60,775	71,025	•	72,075	74,725	•	61,225	61,225	ï	67,675	56,275	a.	,	549,585
Science and Technology - Technology Management	24,585	60,775	71,025		68,225	68,575		64,525	57,925	ı	67,675	56,275			539,585
Science and Technology - Telecommunications Science	24,585	60,775	71,025	•	75,875	67,025	,	64,775	68,975	,	67,675	61,225	1		561,935
Science and Technology - Business Data Analysis	24,585	60,775	71,025	2	64,925	65,275	1	61,525	61,525	ł	56,425	59,425	ı	,	525,485
Engineering - Machatronics Engineering	27,885	79,525	73,375		79,525	73,375		54,925	58,075	ï	57,475	60,325	ţ		564,485
Engineering - Computer Engineering	27,885	79,525	67,225	1	71,575	58,675	ı	57,025	64,675	ĩ	68,725	63,475	e.		558,785
Engineering - Telecommunication and Electronic Engineering	27,885	79,525	73,375	1	71,575	63,625	1	59,875	61,675	1	61,075	60,325		ı	558,935
Engineering - Electrical and Electronic Engineering	27,885	79,525	73,375	ı	71,575	71,575	ı	60,775	59,875	a.	54,925	60,325	a.	1	559,835
Engineering - Aeronautic Engineering (Multi Crew Pilot)	37,885	87,525	74,625	403,150	80,775	120,225	242,500	386,775	705,175	•	1,103,675	1,278,425	1	•	4,520,735
Engineering - Aeronautic Engineering (Commercial Pilot)	37,885	77,725	94,375	370,500	291,125	631,775	ı	332,075	434,525	ı	307,825	284,875		'	2,862,685
Engineering - Aeronautic Engineering (Aircraft Maintenance Engineer)	eer) 37,885	102,725	116,725	1	137,875	194,925		227,125	347,525	•	223,475	208,475		,	1,596,735
Communication Arts - Advertising	25,585	62,575	59,875	1	64,425	72,425	1	61,025	58,525	1	50,975	53,775	ł		509,185
Communication Arts - Performance Communication	25,585	62,575	59,875		65,425	71,425	1	62,025	56,275	•	59,225	58,775	1	1	521,185
Communication Arts - Public Relations	25,585	62,575	59,875	ſ	65,425	70,125	·	62,025	59,525	4,100	51,975	56,275	1		517,485
Communication Arts - New Media Communication	25,585	62,575	59,875	1	67,925	74,225	1	70,075	68,925	4,700	60,725	70,525			565,135
Communication Arts - Visual Communication Design	40,435	67,275	69,275	1	71,075	76,975	,	65,725	59,425	4,700	63,725	64,725		•	583,335
Communication Arts - Computer Generated Imagery	40,435	74,525	72,275		80,325	80,475	•	70,725	61,475	4,700	63,425	59,975		•	608,335
Law	24,585	54,725	52,075	,	55,425	55,325	•	49,675	48,025	1	46,375	34,825	4		421,035
Biotechnology - Food Technology	24,585	74,875	65,275	-	64,075	65,825		59,525	57,325	•	51,775	52,675	1	ı	515,935
Biotechnology - Agro industry	24,585	74,875	65,275		64,075	65,825	·	58,525	57,325	1	51,775	52,675	Ŀ		514,935
Architecture - Architecture	31,185	64,425	62,575	•	70,925	71,075	ï	67,625	66,425	1	61,425	60,175	62,225	62,225 58,175	676,235
Architecture - Interior Architecture	31,185	64,425	62,575	¢	70,925	72,975	r,	66,025	67,275	t	61,425	59,975	62,225	62,225 58,175	677,185
Architecture - Interior design	31,185	62,625	65,825	1	68,675	72,825	•	66,225	67,975	ı	59,175	50,725	,	,	545,235
Architecture - Product Design	31,185	62,625	65,825	1	71,525	68,725	1	65,175	69,775	i	57,575	50,925	,	•	543,335
Remarks:															

Approximate fees by semester

Non Thei student must add 12,500 Baht to Enrollment and Intensive Course Fees to make up the difference between Matriculation amounts and are also required to pay an annual Health Insurance fee of 3,000 Baht during first enrollment.
Fees are subject to change without prior notice.



ADMISSION FOR PROSPECTIVE STUDENTS FROM NON-THAI HIGH SCHOOLS:

WHO CAN APPLY?

- 1. Applicants with any of the following qualifications:
- High School or grade 12 graduation diploma and transcript.
- If I.G.C.S.E./G.C.S.E./G.C.E "O" Level graduation diploma then at least 5 subjects with grades no less than "C" is required.
- If G.C.E "A" Level then at least 3 subjects with grades no less than "E" is required.
- G.E.D. Certificate and Diploma
- If IB certificates then at least 5 subjects with grades no less than "4".
- Minimum first year university completion certificate and transcript (For applicants that graduated from the Philippines and Myanmar only).
- Other equivalent Diploma and Certificate that must be authorized by the Ministry of Education**.
- Applicants must be free from infectious diseases that can hinder their study.
- Applicants must have good manners and testify to the university that they will be attentive, make the fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

Remark: **

Other equivalent certificates or diplomas must be translated to English and issued or certified by their own government's Ministry of Education, Foreign Ministry, or Embassy or issued in English by their school of graduation.

- 2. Applicants must be free from infectious diseases that can hinder their study.
- 3. Applicants must be able to bear all expenses related to their study.
- 4. Applicants must have good manners and testify to the university that they will be attentive, make fullest use of their capability in their study, and strictly conform to the university's rules and regulations.

If found lacking in any of the conditions listed above, the applicant will have his or her admission declined or his or her student's status nullified immediately.





WHAT IS NEEDED TO APPLY?

Freshmen

- One copy of high school certificate or diploma or any other equivalent qualification as authorized by their country's Ministry of Education or other assigned government agency, which must be translated to English and be confirmed by their own goverment's appropriate Ministry or Embassy or issued in English by the school that issued the graduation record, diploma, or transcript.
- 2. High school transcripts (translated to English and get confirmed by their own Embassy or issued in English by their high school or equivalent graduated school.)
- 3. One copy of identification card and residence registration for Thai students and one passport copy for foreign applicants.
- 4. Four 3x4 cm. photos.
- 5. A copy of a name/surname change certificate, if applicable issued by competent authority in English.
- Transfer Students:

Assumption University accepts transfer students from institutions where English is the principal language of instruction. In addition to the above, transfer students must also submit:

- 1. Latest Official Transcript from the University/ College attended; and
- 2. Description of courses taken from that University /College

HOW TO APPLY?

Assumption University offers four methods of application to prospective students. They are:

- Walk-In application: On arrival at Assumption University (any of the university campuses) students must:
- (i) Produce a Thai ID or passport and original copies of all the admission documents mentioned above.
- (ii) Fill out the Admission Application form, specify the faculty/major codes, sign their name, application date and attach one 3x4 cm. photo.
- (iii) Submit the Admission Application form and their documents to the Admission Center. The admission processing fee is 500 baht.
- Email application: to apply via email the applicant must scan and email the admission documents mentioned above to <u>abac@au.edu</u>
- (i) After assessment, the applicant will be informed via email the status of his application. If the applicant's documents are incomplete or are not in accordance with the Ministry of Education, Assumption University will ask applicants requirements, to send supplemental documents.
- (ii) International students applying from abroad whose applications are approved must send a bank draft of 1,000 USD payable to "Assumption University" as a deposit fee. The aforementioned amount will be adjusted against the enrollment fee during registration. Thai and non-Thai students who have completed their high school or equivalent in Thailand are not required to send the bank draft of 1000USD in order to receive an acceptance letter



Refund policy for deposit amount

- It is non-refundable, except in case of visa rejection.
- It will be refunded in form of adjusting with the enrollment and tuition fees.
- (iii) Upon the receipt of the draft along with other required documents the university will issue the student an Acceptance Letter, which will facilitate the issuance of Non-Immigrant ED Visa with a stay permit of 90 days. Applicants must produce the acceptance letter at the Royal Thai Consulate in their home country for a student visa and comply with the expected arrival date stipulated in the Acceptance Letter.
- 3. Mail application: Applicants may mail the admission documents to:

Office of the University Registrar, 592/3 Assumption University, Soi 24 Ramkamhaeng Rd., Hua Mak, Bangkapi, Bangkok 10240, Thailand

Applicants are requested to enclose a mailing address, email address, and other contact details with the admission documents.

Remarks: on approval note of the application, please refer to item 2. (i), (ii), (iii)

4. Fax application: applicants may fax the admission documents to +66 (2) 719 10 90

Please provide a mailing address, email address and other contact details with the admission documents.

Remarks: on approval of the application, please refer to item 2. (i), (ii), (iii)

Note: applicants applying via email, mail or fax must present original admission documents, photographs, passport / Thai ID/ Residence Registration on arrival at Assumption University.

ADMISSION CRITERIA

- Applicants must have graduated, or eligible to receive graduate status from their high school, and successfully completed Grade 12 or have other qualifications as stated above;
- 2. optional minimum test scores required:
- TOEFL score of 70 (iBT) / 500 (PBT);
- IELTS score of 5.0 and above in all bands with a validity of 2 years;
- SAT 1 (Critical reading & writing) total score of 600 or above; and
- SAT 1 (Mathematics) score of 500 or above.

Remark: the University will consider applications with a TOEFL score of 500 (PBT) / 70 (iBT) and above or an IELTS of 5.0 or SAT 1 (Critical reading & writing) total score of 600 or above to be exempted from the English Placement test and English Intensive course(s). SAT1 (Mathematics) scores of 500 or above are exempted from the mathematics placement test and Mathematics Intensive course or Pre-Calculus.

Kindly specify the score in the Application form for admission and attach copies of the official score (original required at the time of registration).

- 3. Transfer students
- The transfer of credits will be approved only under the following conditions:
- Must have at least a GPA of 2.00 out of 4.00 scale;
- The course was completed at an accredited institution;
- The course content is equivalent to that specified in the University's curriculum;
- The course must have been taken within 5 years prior to the time of application;
- Only a course with an earned grade of "C" or higher in a general education course and an earned grade of "B" or higher in a professional core course will be accepted as transfer credit;
- A maximum 70 credits can be transferred.



PLACEMENT TESTS AND INTERVIEWS

All applicants must take placement tests in English and/or Mathematics. The English placement test is given to applicants whose native language is not English and/or whose primary language of instruction has not been English and who did not produce the required TOEFL or IELTS scores. Some faculties and majors require additional tests and interviews. Exceptions will be made on an individual basis. Some faculties and majors require additional tests and interviews.

Faculty	Department	Additional Testing / Interv	view Required
Faculty of Music		Theory and History of Music	Audition
Faculty of Communication Arts	Communication arts Visual Communication Design Computer Generated Imagery	Aptitude Test Part I: Drawing* Part II: Design*	Interview Interview
Faculty of Architecture		Architecture Aptitude**	
Faculty of Nursing Science		Aptitude Test	Interview
Faculty of Engineering		Physics	-

Remark: * Use black pencil No. EE, color and drawing board ** Use black lead pencil No. 2B or BB

Placement Test Process

(Prospective students applying from abroad):

During the application period, students are requested to check the placement test schedule from our website and are expected to arrive in Thailand at least 2 working days prior to the test date to receive a temporary ID card and complete other necessary paperwork. Some faculties require applicants to take additional tests as shown in the chart above and applicants are advised to prepare accordingly.

On the test day, please bring your temporary ID card. The tests usually last for 2 hours for each subject and the students will be tested mainly on their proficiency and skills in certain subjects depending on the faculty/ department applied for.

Interview Process: Not all the applicants have to face interviews though it is a must for all Communication Arts and Nursing Science Applicants. Others required to go through interviews will be informed of this requirement on their arrival and will be given on interview schedule.

Interviews usually last for 30 minutes and discussions could be on matters of personal interest or current world affairs.

Exemption

The university will consider applications with a TOEFL score of 70 (iBT) or above or IELTS of 5.0 or SAT1 (Critical reading & writing) total score of 600 or above to be exempted from the English placement test and English intensive course(s). SAT 1 (Mathematics) score of 500 or above are exempted from the Mathematics placement test and Mathematics intensive course or Pre-Calculus



INTENSIVE COURSE POLICY

Applicants who are not exempted from placement tests are required to take intensive courses to improve their knowledge in preparation to study in the University by improving their English skills, reviewing mathematics comprehension and other subjects, concerning the faculty / major to which the applicant has applied. When applicants have successfully completed the intensive course(s), Assumption University will examine the results of the intensive course(s) and properly place the applicants in the appropriate classes for the August semester.

1. Intensive English Courseis

is divided into 2 levels: a 60-hour course and a 120-hour course. Placement depends on the results of the English placement test.

- Intensive Mathematics Course is divided is divided into 3 levels: a 15-hour course, a 30-hour course and a 60-hour course. Placement depends on results of the Mathematics placement test.
- 3. Other Intensive Courses

are French, Chinese, Japanese, Creative Communication, Drawing, Architecture Preparation Workshop or Theory of Music. Courses taken depend on the applicants' academic performanc and the faculty/department applied for.







ACADEMIC INFORMATION



ACADEMIC SYSTEM

Assumption University has adopted the semester system. An academic year is divided into two semesters and a summer session. A semester lasts for approximately sixteen weeks.

- First Semester-begins in August and ends in December.
- Second Semester-begins in January and ends in May.
- Summer Session June and August (optional).

One credit hour requires a minimum of 15 hours of class attendance; a subject involving 3 credit hours will require at least 45 hours in class. To qualify for the final examination in any subject, each student must be present for at least 80% of the class meetings. In some exceptional cases, at the discretion of the lecturer and/or the Dean of the Faculty concerned, this requirement may be waived.

NORMAL COURSE LOAD

A student's course load may vary from semester to semester. The minimum for all full-time students is four courses (12 credit hours) per semester; the maximum course load is six courses (18 credit hours) per semester. To enroll in more than six courses, written permission must be obtained from:

- The chairperson of the department concerned (if a graduating student, or junior and senior students with a cumulative G.P.A. of at least 3.25).
- In all other cases, the Dean of the Faculty con cerned must be consulted.

ATTENDANCE

Students are required to attend all classes regularly. To qualify to take a final examination for any subject, a minimum of 80% attendance is mandatory. There are no authorized cuts from classes; irregular attendance may result in exclusion from classes. Any student who finds that he/she can no longer attend a class must officially withdraw in writing through the Office of the Registrar. Failure to withdraw officially may result in a grade of "F" for the course. In case of unavoidable absence, such as subpoena requirements, illness or death of a member of the family, all work missed must be satisfactorily made up and it is the responsibility of the student to arrange for this.

WITHDRAWAL

Students may withdraw (drop) officially from a course, or all courses during the first two weeks without any penalty. Thereafter, until the final day of withdrawals as indicated in the University calendar, students will receive "W" grades. An official withdrawal must be accomplished at the Office of the Registrar by the student personally (not by someone else on his/her behalf). Failure to withdraw officially will result in a "WF" grade.

GRADING SYSTEM

Letter grades are used to show the academic standing of all students with the following meanings and values.

GRADE	MEANING	VALUE
A	Excellent	4.00
A-	Almost Excellent	3.75
B+	Very Good	3.25
В	Good	3.00
В-	Fairly Good	2.75
C+	Fair	2.25
С	Satisfactory	2.00
C-	Minimum Satisfactory	1.75
D	Poor	1.00
F	Failure	0.00
R	Course repeated later	-
S	Satisfactory	-
U	Unsatisfactory	-
W	Withdrawal with Permission	-
WF	Withdrawal with F Withdrawal from course after t	0 ime limit
AUD	Audit and non-credit	-
I	Incomplete, used in case a stuc fails to complete his/her assign within the time limit or is abse the examination with approval University due to exceptional r	iment nt from from the
WP/IP	Work in progress	
NR	No Report	
TR	Transfer Credits	

Student grades are computed at the end of each semester, and may include:

- Quizzes
- Term papers
- Book reports
- Assignments
- Recitation
- Class participation
- Attendance
- Midterm and final examinations

These requirements may vary with each course.

ACADEMIC ACTION

Academic action can be both favorable and disciplinary. When a student is performing well, all action on him/her in the academic area is said to be favorable to the student. For example, when a student obtains a high GPA he/she is put on the academic List of Honors; when he/she consistently achieves very high marks, he/she is given higher honors. However, if his/her achievement is below standard, disciplinary action may be taken against him/her.

PROBATION

Students who obtain a cumulative GPA of less than 2.00 (1.99-1.50) but above the limits set for dismissal from the University will be put on probation, except during the first semester of the freshman year.

DISMISSAL

Undergraduate Students will be dismisses from the University under the following conditions:

- obtaining a cumulative GPA of less than 1.50 at the end of any semester except the first semester of the freshman year;
- obtaining a cumulative GPA of less than 1.75 for two consecutive semesters except the first semester of the freshman year;
- obtaining a cumulative GPA of les than 2.00 for four consecutive semesters except for the first semester of the freshman year. However, in certain cases, the President, in consideration of a student's potential to improve his/her academic performance and eventually graduate, may grant special permission for the student to carry on his/her studies at the University on probation condition.

Assumption University of Thailand | Academic Information



HONORS SYSTEM

The University, wishing to provide recognition to exceptional students, has established an Honors System. Undergraduate students are given awards for achievement measurable in grades beginning with semester grades and ending with cumulative grades until graduation.

GRADUATION WITH HONORS

Cum Laude	Cumulative	GPA	3.25-3.49

REQUIREMENTS FOR GRADUATION WITH HONORS

- Have fulfilled all the requirements for graduation within 4 years (5 years for Architecture).
- Have not been placed on probation in any condition.
- Have not received a grade lower than "C" for any course.
- Transfer students must have taken all the third and fourth year courses (or 72 credits) at Assumption University.
- Students who have graduated with a cumulative GPA of 3.25 or higher, regardless of a grade lower than "C" or "U" for non credit courses, or those who completed all requirements within 5 years of study for all 4-year undergraduate programs; and within 6 years for the Architecture program, are entitled to obtain an Award of Academic Excellence.

SPECIAL HONORS AND AWARDS

Students are given distinctions for their performance for a semester or an academic year as listed below:

- A Special Certificate of Honors from the University Council for those who obtain a 4.00 GPA for any academic year;
- A Special Certificate of Honors from the President of the University to all students who fall within the GPA range of 3.50-3.99 for any academic year;
- Students who obtain a GPA of 3.25 or above at the end of each semester will have their names published in the Academic List Honors.

Condition:

- 15 credits / semester required except for final semester.
- Grades must be "C" or higher.



STUDENT AFFAIRS



Being committed to the educational process of student character formation, Au Student Affairs exists for the well-being of students' lives, moral and value education, and out-ofclassroom learning. On the basis of individual differences and preferences, centers and divisions under Student Affairs provide a wide range of interventions and services aiming at students' growth and satisfaction. The Office of the Vice President for Student Affairs is a core unit that coordinates all Student Affairs centers and divisions.

International Center

The center is a mentor to help foreign students to settle down and adjust to Thai surroundings. Nevertheless, students will never lose their national identity during their years in Thailand. Lots of events and activities to communicate their cultural heritage to colleagues from different countries have been encouraged which in turn has led to cross - cultural awareness, mutual understanding, the appreciation of other cultures and unity in diversity among people in our multinational community. Moreover, the center is more than a location; it is a home and a cradle in which international students can seek assistance and guidance regarding accommodation, transportation, etc.

Center for Residential Life

Three residential buildings at Suvarnabhumi Campus: King David, King Solomon and Queen of Sheba that accommodate 2500 Thai and international students stand for a community of scholars who dedicate their young lives to the pursuit of knowledge. The integration of excellent facilities with Internet technology removes all worries about living conditions and allows young scholars to access sources of knowledge anywhere around the world at anytime. The Center for Residential Life consists of instructors who help make it a home for all members by providing orientation and information, giving advice and assistance when they experience difficulties and encounter problems, creating a multicultural learning environment free from prejudice and discrimination, and promoting harmonious relations and peaceful living despite differences in language and culture, and preparing developmental programs to enable students to excel.

Center for Sports and Physical Fitness

High standard sport facilities and fitness equipments reflect the university's commitment to belief in the importance of students' physical development. The center is responsible for encouraging students to access these facilities and equipment for their physical fitness through professional services and management. Free access is to guarantee that it is open for all equally. Various sport lessons and training are designed for both beginners who need sports for enhancing their physical health or those who want to become university athletes.

Center for Mental and Personality Development

The center is responsible for fostering and enhancing students' emotional growth, which is regarded as one of the four core dimensions of the total development of a human person. Professional psychologists at the center are ready to provide counseling services to not only individuals and groups, but also their families. Various proactive sessions are continually organized so as to help students know their individual selves and cope with problems and anxiety. Peer counselors are students who pass advanced training conducted by professional counselors in the center who will embed groups of students so to assure that emergent needs will be responded to and students' emotional maturity is encouraged at all levels.

Financial Aid and Scholarships Division

Assumption University is committed to the policy that "no Au students will terminate their education due to lack of financial support". The Financial Aid and Scholarships Division exist in particular to assist students who are eligible for financial assistance or scholarships during their study. The University provides several types of financial aid programs and scholarships to cover the difficulties and needs of students, which can be grouped into the following.

- Scholarship: funds from the university or other sources granted to students who fulfill the university's requirements.
- Grant: form of financial aid offered to students who are in financial difficulty.
- Loan: the financial assistance offered to students on the basis of financial needs with repayment conditions. The conditions of repayment depend on loan agreements of each of particular source which includes University loan and Government loans.



Student Rights and Discipline Division

The Student Rights and Discipline Division has a joint mission with other units in the university to develop Au students to their true potential by inculcating a sense of deliberation and upholding self-discipline that will eventually enhance their moral maturity, creating an environment that fosters opportunities for students to develop their sense of self-responsibility and self- discipline, acknowledging their personal rights and each other's, exercising freedom of choice constructively, and maintaining proper social manners. The Student Rights and Discipline Division follow a student-centered approach and uses university guidelines for discipline formation as the cornerstones of the execution of its functions. The functions of the unit are to monitor student behavior, to reform students from improper behavior, to inculcate desirable social values, to rehabilitate desirable behavior, to encourage the process of behavior change, and to maintain student welfare and security inside the campuses.

Student welfares and services

Insurance

The division arranges Group Accident Insurance for all students and Health insurance for non- Thai students at registration each academic year. Non-Thai students who pay for health insurance fee will receive a health care card one month after registration. Students can request accident insurance compensation by filling in the relevant documents at the division. International students whose parents reside in Thailand or who have an insurance policy and do not need the university health insurance program must file an exemption request form.

Military Services

The R.O.T.C. Program is provided for Thai students who accept military training. Students can contact the University R.O.T.C. supervisor for application. Military service postponement for male students who have reached the age 20 and who have never been trained in the R.O.T.C. Program (Reserved Officer Training Corps) is possible following submission of the relevant documents during the specified period.

Lost & Found

A Lost & Found service is available during working hours for students who have lost or found any property on campus. If advice is needed, students are to contact the Disciplinary Advisor directly. During non–working hours, they should report to the security guards.

Letter of Recommendation

Students can request letters of behavioral recommendation by submitting the petition forms at the Student Rights & Discipline Division.

St. Martin Center for Professional Ethics

& Service Learning

St. Martin Center for Professional Ethic & Service Learning is responsible for fulfilling Assumption University's vision of 'continuous improvement', of students' personal integrity and professional ethics. The center utilizes both in classroom learning, and 'Service Learning' to facilitate students' growth in terms of self-discipline, self-control, personal and social responsibility, moral maturity, cognitive moral reasoning and social awareness. These programs and activities include:

- Business and Professional Ethics Seminar (BG1403) which is a requirement for graduation for all Au undergraduate students. Each student has to attend this class twice a semester, totaling sixteen classes in all during four years.
- Service-Learning is a special requirement for third year, first semester students.
 Through this program, each year Au students organize more than a hundred projects in many provinces, which contribute to Thai society.
- Moral Training is a special program to help students to reflect on their life, discover their moral orientation, and learn together in groups how to solve moral dilemmas systematically.

The Center for Student

Leadership and Experiential Learning

Realizing the fact that learning takes place both inside classrooms and outside classrooms, The Center for Student Leadership and Experiential Learning is assignedtocreate, develop, and maintainout-of-classroom learning activities in different respects that fit students' individual differences, talents, and interests.

To promote a democratic way of life, and leadership on campus, the university encourages students to participate in and manage various kinds of extracurricular activities. Depending on different interests, students voluntarily choose to prepare themselves for later life through their involvement in the Student Organization, the student committee of faculties and majors, the resident student committee, clubs, activity groups and those projects or programs organized by these student activity units.



The Assumption University Student Organization, made up of an elected President and other executive members, is the governing body of student activities. It is empowered to supervise student committees, clubs, and other activity units.

The Categories of clubs and units under the Student Organization include Academic, Value and Ethics Promotion, Sports, Music and Art Performance, Recreation, Social and Environmental Development, Information and Public Relations.

More than 40 student clubs in the campus are gatherings of students of the same interest to share their talent and contribute to society. 'Activities for All' provides opportunities for students to form either a small, middle-sized, or big groups for any creative project or activity of their special interest. Advisors at the center are ready to advise, assist, coordinate students to, or disseminate information on student activities/ projects so as to ensure that even beginners can start projects/ activities on their own initiative.

Learning Support Center

The Learning Support Center (LSC) strives to help students 'learn how to learn', help solve learning problems; and promote the right attitude towards educational achievement. The center works closely with academic deans and chairpersons to facilitate effective study. The LSC believes that, through proper learning strategies and techniques, all students will achieve academic excellence. Services and activities include:

- counseling and advising for learning behavior;
- student development programs including short training sessions, workshops, and seminars to further develop study skills and time management skills in students.
- the LSC Mini Library which provides supplementary materials and educational media such as video cassettes, CD-ROMs and textbooks to enhance students' learning skills;
- on Educational Testing Service which includes Intelligence Testing and Learning Behavior Testing to help students to find out learning styles, strengths and weaknesses.

Career Development Center

Career development is an ongoing, life-long process. The Career Development Center (CDC) is prepared to assist students in applying their particular combination of interests, abilities, values, and motivations to a systematic search of the working world and potential professional and educational opportunities.

The center provides students and recent graduates with advice, information, and on-campus services regarding full-time and part-time employment, career planning and development. Services and activities include career-related programs and workshops, job placement, career week, summer job training program, alumni talk, career resources, company relations and services.

Moreover. SO as to create а sense of entrepreneurship in students, the Career Development Center with the cooperation of ABAC School of Management, has established the Dummy Company Project that gives opportunities to students to form organizations. This project is run by students themselves as a real business enterprise. It enables students to have a direct experience in management as well as experience in a real business organization.



OFFICE OF INTERNATIONAL AFFAIRS



The Office of International Affairs reports to the Office of the President and is responsible for taking the lead in establishing international education exchanges and study abroad opportunities at both undergraduate and postgraduate level programs.

The Office provides guidance and counseling for students who wish to spend a semester abroad, to transfer as an undergraduate or to continue postgraduate studies at other international institutions. It is also charged to collaborate with the Office of Student Affairs, the International Students Center, the Office of Thai Art and Culture and with each faculty to enhance the care taking of international students.

OPPORTUNITIES ON STUDENT EXCHANGE PROGRAMS

Assumption University's Student Exchange Program gives students the opportunity to experience life in another country while still earning credits towards their degree.

Assumption University has numerous agreements of cooperation with institutions in 33 countries. Most agreements include elements for student exchange, faculty exchange, sharing of research and more.

32 Institutions from 14 countries send their students on Exchange study programs. Assumption University students can also go to these institutions on student exchange programs.

JOINT DEGREE PROGRAMS

Assumption University has several joint degree programs which allow students to study partially at Au and then to complete their degree at a western university. The degree, awarded by the western university, is thus obtained at a substantially lower cost than having to study at the overseas university full-time. Au currently has seven Post-Graduate joint degree programs and two Undergraduate joint degree programs and is exploring others.
Bachelor Degree Programs	
Au – Wollongong (Australia)	
Au – BLCU (China)	
Au – Rajagiri (India)	
Au – UCD (United States)	B.B.A. Twinning Program
Master's Degree Programs	
Business & Management	
Financial Management **	MSc-FM - Financial Management
International Business *	MSc-IB - International Business
International Marketing *	MSC-IM - International Marketing
Biotechnology	
Food Biotechnology***	MSc. FB – Food Biotechnology
Law International Business Law **	LLM - International Business Law
Engineering	
Telecommun. & Computer Network Engineering *	
Information Technology Internet and Multimedia Engineering *	MSc-IME - Internet and Multimedia Engr.
Education, Language, Philosophy, Religion & Tourism	
Teaching English as a Second Language *	MA-TESL - Teaching English as a 2nd Lang.
Doctoral Degree Programs	
Food Biotechnology***	Ph.D.FB
Internet & Multimedia Engineering *	Ph.DIME
Telecommun. & Computer Network Engr. *	Ph.D TeCNE

* Joint program with South Bank University, UK ** Joint program with the University of Exeter, UK *** Joint program with University of California, Davis

ACCEPTANCE MODES BY **OVERSEAS UNIVERSITIES:**

Assumption University has numerous agreements of cooperation with institutions in 33 countries. Most agreements include elements for student exchange, faculty exchange, sharing of research and more. Universities that have worked with Au on such arrangements include though not exhaustively, quite actively, include:

Australia:

- **Griffith University**
- The University of New South Wales
- University of Queensland
- University of Wollongong
- Australian Catholic University

Europe:

- ESCIP, France
- ESPEME Lille, France
- ESPEME, Nice, France
- FHS Kufstein Tirol University of Applied Sciences, Austria
- Hogeschool Utrecht, The Netherlands
- IESEG School of Management, France
- **ISEP**, France
- Jyvaskyea University of Applied Sciences, Finland
- Katholische University, Germany
- Laurea University of Applied Sciences, Finland
- Louvain Catholic University, Belgium
- Rotterdam University, The Netherlands
- Stockholm University, Sweden
- Tampere Polytechnic University of Applied Sciences, Finland
- The Catholic University of the West, France
- The Hague University, The Netherlands
- University of Applied Sciences Mainz, Germany
- Hogeschool Zuyd, Netherland

South East Asia:

- Gakushuin University, Japan
- Hong Kong Baptist University, Hong Kong
- Kansai Gaidai University, Japan
- Ryukoku University, Japan
- Seisen University, Japan
- Sogang University
- The Catholic University of South Korea, Korea
- University of the Sacred Heart, Japan

United Kingdom:

London South Bank University

- Nottingham University
- University of Exeter
- Warwick University
- De Montfort University

United States:

- **Ball State University** .
- De Paul University in Chicago . .
- Juniata College
- Loyola University Baltimore
- Monterary Institute in California
- Murray State University
- Pepperdine University, California
- Pittsburgh State University
- Tarleton State University
- The University of the Incarnate Word
- The University of Dayton
- The University of Wisconsin Whitewater
- The University of California, Davis

AGREEMENTS AND LINKAGES

In terms of visiting Professors and study groups traveling abroad on short courses and internships as the result of agreements on Academic co-operation:

Australia:

- **Griffith University**
- The University of New South Wales
- University of Queensland
- Wollongong University

Finland:

- Jyvaskyea University of Applied Sciences, Finland
- Laurea University of Applied Sciences
- Tampere Polytechnic University of Applied Sciences, Finland

France:

- Catholic University of Lille
- Catholic University of the West
- **ESCIP School of International Business** .
- IESEG School of Management, France
- **IESEG School of Management, France**

Germany:

- University of Applied Sciences Mainz
- University of Siegen

Japan:

- Kansai Gadai University .
- Nihon University
- Ryokoku University .
- University of the Sacred Heart



- Kansai University of International Studies United Kingdom:
- London South Bank University
- University of Exeter

United States:

- Ball State University
- De Paul University in Chicago
- Murray State University
- New Mexico State University
- Pittsburg State University, Kansas
- Tarleton State University Stephenville, Texas
- The University of California, Davis
- The University of Dayton
- University of Incarnate Word, San Antonio, Texas

DIRECT INDEPENDENT ADMISSIONS EITHER THROUGH TRANSFERS OR THROUGH POST GRADUATE ADMISSIONS

Over the past 42 years Assumption University graduates have been accepted into programs of pride in Canada, United States, United Kingdom, Europe, Australia and Asia.

Such acceptances have been made possible through Assumption University's strong curriculum, English language instruction and rigorous testing methods.





ASSUMPTION UNIVERSITY & UNIVERSITY OF WOLLONGONG TRANSFER PROGRAM FOR BUSINESS ADMINISTRATION STUDENTS



STUDENT OPTIONS

The University of Wollongong; NSW Australia and Assumption University; Bangkok Thailand have entered into a historic agreement that will permit qualified BBA students to enter into the second year of Wollongong's 3-year Bachelor of Commerce (B.COM) degree program.

BACHELOR OF COMMERCE AT UNIVERSITY OF WOLLONGONG REQUIREMENTS

- Each ABAC subject must be at C- grade or higher
- TOEFL 213 (computer), 79 (Internet), and TWE 4.0
- OR IELTS 6.0 or above (Reading & Writing band must also be 6)
- There is a 18-week Wollongong University
 Directly Entry Course offered by the Wollongong
 College Australia for students who cannot initially
 score 213 on the TOEFL or 6.0 on the IELTS

Completion of the following subjects at Au is equivalent to the 60 credit points of advanced standing of the Bachelor of Commerce at UoW

	Au Subjects	UoW Subjects	
1	ACT1600 Fundamentals of Financial Accounting	ACCY111 Accounting Fundamentals in Society	6
2	ACT2620 Fundamentals of Managerial Accounting	ACCY112 Accounting in Organisations	6
3	BG1201 Statistics I BG2200 Statistics II	COMM121 Business Statistics	6
4	BG2400 Macroeconomics FIN2700 Money, Banking and Financial Markets	ECON101 Macroeconomic Essentials for Business	6
5	BG1400 Business Law I BG1401 Business Law II	LAW101 Law, Business and Society	6
6	MGT2900 Principles of Management	MGMT110 Introduction to Management	6
7	MKT2280 Principles of Marketing	MARK101 Marketing Principles	
8	BIS2180 Information Technology	COMM113 Business Oriented Information Systems	6
9	BG2401 Microeconomics MGT1101 Introduction to Business	ECON111 Introductory Microeconomics	6
10	BG1200 Mathematics for Business	ECON222 Mathematics for Business	6

Program of study required for the award from Faculty of Commerce

Bachelor of Commerce, in the following Major

- 1) Accountancy
- 3) Business Innovation
- 5) Marketing
- 7) Financial Planning
- 9) Human Resource Management
- 11) International Business
- 13) Quantitative Analysis in Economics

- 2) Economics
- 4) Management
- 6) Finance
- 8) Business Law
- 10) Public Relations
- 12) Supply Chain Management

Tuition fees for B.Com program at the University of Wollongong is AUD\$ 20,502.00/year (refer to year 2011), Overseas Student Health Cover AUD\$ 420.00/year. Living expense including accommodation is approximately AUD\$ 12,000/year. These will be estimate total AUD\$ 32,922/year.





MARTIN DE TOURS SCHOOL OF MANAGEMENT AND ECONOMICS

CURRICULUM STRUCTURE

Courses	MKT	MGT	FIN	ACT	BIS	HTM	IBM	IDM	REM	INS	ECO
A. General Education Courses	40	40	40	40	40	40	40	40	40	40	45
- Language Courses	15	15	15	15	15	15	15	15	15	15	15
- Social Science Courses	13	13	13	13	13	13	13	13	13	13	6
- Humanities Courses	6	6	6	6	6	6	6	6	6	6	9
- Science and Mathematics Courses	6	6	. 6	6	6	6	6	6	6	б	15
					10000	and the second	Terrare and				
B. Specialized Courses	93	93	93	96	96	93	93	93	93	93	90
- Business Core Courses	48	48	48	48	45	48	48	48	48	48	33
- Major Required Course	30	30	30	36	42	30	30	30	30	30	30
- Major Elective Courses	=	-	-	=	-	-	-	=	5	-	12
Concentration Courses	15	15	15	12	9	15	15	15	15	15	15
C. Free Elective Courses	9	9	9	6	6	9	9	9	9	9	9
Total Credits	142	142	142	142	142	142	142	142	142	142	144



OBJECTIVES

Matin De Tours School of Management and Economics offers a wide range of undergraduate courses including the traditional disciplines of Marketing, Finance, Management and Accounting in conjunction with the emerging fields of study such as Business Information Systems for students wishing to work in private and public sectors. Through an innovative, practical, and high-quality teaching program, the students are allowed to:

- Develop sound knowledge and practical skills to adapt to the fast changing, highly competitive business world,
- Develop the ability to analyze and solve problems and make management decisions,
- Be equipped with communicative skills and the ability to handle advanced information and communication technology,
- Prepare themselves for a wide range of careers including working as professionals and entrepreneurs,
- Be leaders in the business community.

The School of Management and Economics offers Programs of study as follows:

- Marketing (MKT)
- Management (MGT)
- Finance and Banking (FIN)
- Accounting (ACT)
- Business Information Systems (BIS)
- Hospitality and Tourism Management(HTM)
- International Business
 Management (IBM)
- Industrial Management (IDM)
- Real Estate (REM)
- Insurance (INS)
- Business Economics (ECO)

GRADUATION REQUIREMENTS

To be qualified for graduation, the student must

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline

DEPARTMENT OF MARKETING

Degree Conferred:

Bachelor of Business Administration (Marketing) B.B.A. (Marketing)

Program Objective:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Morally sound, committed to acting justly and open to further growth
- Knowledgeable of marketing principles, possess analytical tools and practical knowledge to make sound marketing decision
- Flexible competent and well-rounded in confronting and solving business problems
- Able to work as a team and motivate others to work
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

A. General Education Courses40 CredLanguage Courses15 Cred				
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403 or GE 1401	English I English II English III English IV Communication in Thai Language and Communicatic (For international students)			
Social Science	ce Courses	13 Credits		
BG 2400 BG 2401 GE 1204 GE 2202 MGT 1101	Macroeconomics Microeconomics Physical Education Ethics Introduction to Business			
Humanities	Courses	6 Credits		
GE 2101 MGT 2404 Science and	World Civilization Managerial Psychology Mathematics Courses	3 3 <mark>6 Credits</mark>		
GE 1301 MA 1200	Environmental Science Mathematics for Business			



B. Specialize	d Courses	93 Credits
Business Cor	e Courses	48 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BIS 1141	Business Software Application	s 0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business	
	Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodolog	ју З
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3
SA 1201	Statistics I	3
SA 2200	Statistics II	3

Assumption University of Thailand | Department of Marketing

Major Requi	30 Credits	
BIS 3587	Principles of Electronic Commer	rce 3
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 3620	Global Marketing	3
MKT 4725	Competitive Analysis and Strate	gy 3
MKT 4730	Marketing Management	3
MKT 4829	Marketing Decision Making	3
MKT 4855	Research in Marketing	3

Concentration Courses

Students must choose one of the three following		
plans as their concentration courses.		
Plan A: Major Concentration Courses	15 Credits	
Or Plan B: Business Concentration Courses	15 Credits	
Or Plan C: Major Elective Courses	15 Credits	



PLAN <mark>A</mark> – Ma	ajor Concentration Courses 15	Credits
	rsuing PLAN A must select a on in the major area and study the fi urses.	ve
Integrated N	Marketing Communications	
MKT 3627	Sales Promotion	3
MKT 3839	Public Relations & Event Marketin	g 3
MKT 4726	Advertising and Creative Strategy	3
MKT 4727	Integrated Media Planning	3
MKT 4849	IMC Campaign Planning	3

Strategic Marketing

MKT 3629	Pricing Strategy and Decisions	3
MKT 3823	Marketing Channel Strategy	
	and Decisions	3
MKT 4806	Product and Brand Management	3
MKT 4811	Seminar in Marketing	3
MKT 4848	Contemporary Issues in Marketing	3

PLAN B – Business Concentration Courses 15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Advertising

AD 3106	Art Direction	3
AD 3112	Brand Communication	3
AD 3114	Interactive Advertising and	
	Marketing Communication	3
AD 4108	Basic Copywriting (English)	3
CA 2013	Utilization of Multimedia Tools	3

Business Information Systems

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis and	
	Design	3
BIS 4675	Information Systems Project	
	Management	3



Finance and Banking

FIN 3711	Investment
FIN 3712	Money and Capital Markets
FIN 3713	Business Analysis and Valuation
FIN 4813	Financial Management
FIN 4815	Bank Management
Hospitality a	and Tourism Management
HTM 3101	Introduction to Hospitality
	Management
HTM 3102	Introduction to Tourism Management
HTM 3103	Consumer Behavior in Hospitality
	and Tourism Industry
HTM 3205	Marketing for Hospitality and Tourism
HTM 3211	Food and Beverage Management
Internationa	al Business Management
IBM 3711	Comparative Management
IBM 3713	International Management
IBM 3714	Export-Import Policy and Strategy
IBM 4811	International Strategic Management
IBM 4820	International Cooperative Strategy
Industrial M	anagement
muustnarm	anagement
IDM 3203	Logistics and Supply Chain
	Management
IDM 3204	Industrial Safety and Risk
	Management
IDM 4201	Manufacturing Planning and Control
IDM 4203	Quality Management
IDM 4206	Industrial Environmental
	Management

Insurance Management

INS 3101	Principles of Risk Management
	and Insurance
INS 3201	Property Insurance
INS 3202	Casualty Insurance
INS 3301	Principles of Life Assurance
INS 4302	Accident, Group and Health
	Insurance

Management

MGT 3915	Project Management	3
MGT 3917	Innovation and Change Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality Management	3
MGT 4916	Negotiation Strategy	3

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.

MKT 3627	Sales Promotion	3
MKT 3629	Pricing Strategy and Decisions	3
MKT 3803	Retail Management	3
MKT 3804	Fashion Marketing	3
MKT 3805	Healthcare Marketing	3
MKT 3806	Marketing in Asia	3
MKT 3807	Sport Marketing	3
MKT 3817	Sustainability Marketing	3
MKT 3823	Marketing Channel Strategy	
	and Decisions	3
MKT 3826	Merchadising and Display Strategics	3
MKT 3830	Direct Marketing	3
MKT 3836	Merchandising and Promotion	3
MKT 3837	Service and Customer Relationship	
	Management	3
MKT 3838	Event Marketing	3
MKT 3839	Public Relations and Event Marketing	3
MKT 3840	Digital Marketing	3
MKT 3867	Social Media and Online Marketing	3
MKT 3868	Content Marketing	3
MKT 3869	Digital Consumer Insights	3
MKT 4726	Advertising and Creative Strategy	3
MKT 4727	Integrated Media Planning	3
MKT 4777	Communication and	
	Digital Media Strategy	3
MKT 4805	Business-to-Business Marketing	3
MKT 4806	Product and Brand Management	3
MKT 4807	Agricultural Marketing	3
MKT 4808	Advanced Marketing Presentation	3
MKT 4809	Marketing for Services	3
MKT 4810	Export-Import Management	3
MKT 4811	Seminar in Marketing	3
MKT 4812	Individual Research	3
MKT 4826	Contemporary Logistics	3
MKT 4848	Contemporary Issues in Marketing	3
MKT 4849	IMC Campaign Planning	3
MKT 4856	Brand Building Strategy	3
MKT 4857	Qualitative Research in Marketing	3
MKT 4887	Online Entrepreneurship	3
BIS 3448	Principles of Multimedia	3
HTM 3205	Marketing for Hospitality and Tourism	3

C. Free Elective Courses

9 Credits

Students can select courses of 9 credits which are provided by their faculty or by the different faculties upon completion of the prerequisite.

Assumption University of Thailand | Department of Marketing

STUDY PLAN

First and Second Years (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Years (Junior and Senior)

During the junior and senior years, students who select the Marketing Major follow the Marketing program of studies:

1. Ten Major Required Courses

- 2. Five Concentration Courses
 - Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses

Or Plan C: Major Elective Courses

3. Three Free Elective Courses

FIRST YEAR First Semester

Course Code	Course Title C	redits
BG 1001	English I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skil	s
	(For international students)	3
MA 1200	Mathematics for Business	3
SA 1201	Statistics I	3
	Total	19

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
MGT 1101	Introduction to Business	3
SA 2200	Statistics II	3
	Total	21



SECOND YEAR First Semester

Course Code	e Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

THIRD YEAR

First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
BIS 3587	Principles of Electronic Commerce	3
FIN 3701	Corporate Finance	3
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3530	Consumer Behavior	3
MKT 3620	Global Marketing	3
	One Plan A or Plan B	
	or Plan C Course	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environmen	nt 3
MKT 2280	Principles of Marketing	3
	Total	18

Course Code	Course Title	Credits
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
MKT 3525	Sales Management	3
	One Plan A or Plan B	
	or Plan C Course	3
	Total	18



FOURTH YEAR First Semester

Course Code	e Course Title	Credits
MKT 4725	Competitive Analysis and Strategy	/ 3
MKT 4855	Research in Marketing Two Plan A or Plan B	3
	or Plan C Courses	6
	Two Free Elective Courses	6
	Total	18

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship	3
MKT 4730	Marketing Management	3
MKT 4829	Marketing Decision Making	3
	One Plan A or Plan B	
	or Plan C Course	3
	One Free Elective Course	3
	Total	15



DEPARTMENT OF MANAGEMENT

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Bachelor of Business Administration (Management) B.B.A. (Management)

Program Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- · Have a base of good ethical and moral values.
- Have knowledge and pragmatic managerial skills appreciated by international organizations.
- Have entrepreneurial knowledge and skills and able to apply the management knowledge in finance, marketing, human resources, and information technology.
- Have responsibility and good relationships which makes them a good team player
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

Language Courses 15 Credits
BG 1001 English I 3
BG 1002 English II 3
BG 2000 English III 3
BG 2001 English IV 3
GE 1403 Communication in Thai 3
or GE 1401 Language and Communication Skills
(For international students) 3
Social Science Courses 13 Credits
BG 2400 Macroeconomics 3
BG 2401 Microeconomics 3
GE 1204 Physical Education 1
GE 2202 Ethics 3
MGT 1101 Introduction to Business 3
Universities Courses
Humanities Courses 6 Credits
GE 2101 World Civilization 3
MGT 2404 Managerial Psychology 3
Science and Mathematics Courses 6 Credits
GE 1301 Environmental Science 3
MA 1200 Mathematics for Business 3



B. Specialized Courses	93 Credits
Business Core Courses	48 Credits

ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business	
	Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3
SA 1201	Statistics I	3
SA 2200	Statistics II	3

Assumption University of Thailand | Department of Management

Major Requi	red Courses 30 Crea	dits
for All Conce	entrations Except Commerce Concentra	tion
BIS 4875	Strategic Technology Management	3
FIN 3714	Business Condition Analysis	3
FIN 4813	Financial Management	3
MKT 4730	Marketing Management	3
MGT 3903	Leadership	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3945	Managerial Decision Modeling	3
MGT 4910	Productivity and Quality	
	Management	3
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
Major Requi	red Courses 30 Crea	dits
for Commer	ce Concentration	
BIS 3588	Digital Business Enterprise	3
FIN 3714	Business Condition Analysis	3
FIN 4813	Financial Management	3
MGT 3901	Organization Theory	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3945	Managerial Decision Modeling	3
MGT 4910	Productivity and Quality	
	Management	3
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
MKT 4730	Marketing Management	3
· · · · · · · · · · · · · · · · · · ·	100.1	

Concentration Courses

Students must choose one of the	three following
plans as their concentration courses.	
Plan A: Major Concentration Courses	15 Credits
or Plan B: Business Concentration	
Courses	15 Credits
or Plan C: Major Elective Courses	15 Credits
PLAN A – Major Concentration Courses	15 Credits

Students pursuing PLAN A must select one of the following a concentrations in the major area and study the five specified courses.

Entrepreneu	rial Management	
MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3922	Introduction to New Ventures	3
MGT 3928	Management for Growth and	
	Sustainability	3
MGT 4806	Management	
	Internship (240 Hours)	3
Strategic Hu	man Resources Management	
MGT 3924	Human Resources Development	3
MGT 3942	Organizational Behavior	3
MGT 4926	Compensation and Performance	
	Management	3
MGT 4928	Employment Relations and	
	Labor Law	3
MGT 4946	Human Resources Management	
	Internship (240 Hours)	3
Commerce (I	For ACC Campus only)	
MGT 4945	Cooperative Education (720 Hours)	9
MKT 3525	Sales Management	3
MKT 4810	Export-Import Management	3
PLAN B – Busi	ness Concentration Courses 15 Cre	dits

Students pursuing PLAN B must select a concentration in other business areas and study five specified courses.

Business Information Systems

And she are the and the she has been use one and the part is		
BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis and Design	3
BIS 4675	Information Systems Project	5
	Management	3

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4815	Bank Management	3
FIN 4832	Entrepreneurial Finance	3



Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Industrial Management

IDM 3203 IDM 3204 IDM 4201 IDM 4203 IDM 4206 Insurance	Logistics and Supply Chain Management Industrial Safety and Risk Management Manufacturing Planning and Control Quality Management Industrial Environmental Management	3 3 3 3
INS 3101 INS 3201 INS 3202 INS 3301 INS 4302	Principles of Risk Management and Insurance Property Insurance Casualty Insurance Principles of Life Assurance Accident, Group and Health Insurance	3 3 3 3
Marketing		
MKT 3525 MKT 3530 MKT 3620 MKT 4725 MKT 4809 Real Estate	Sales Management Consumer Behavior Global Marketing Competitive Analysis and Strategy Marketing for Services	3 3 3 3
REM 3111 REM 3112 REM 3113 REM 3114	Principles of Real Estate Real Estate Law Real Estate Economics Building Design and Construction Techniques	3 3 3 3

PLAN C – Major Elective Courses

Students pursing PLAN C must select any five of major elective courses.

FIN 3724	Financial Feasibility Planning	3
FIN 4832	Entrepreneurial Finance	3
MGT 3801	Modern Office Management	3
MGT 3901	Organization Theory	3
MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3918	Sport Management	3
MGT 3922	Introduction to New Venture	3
MGT 3924	Human Resources Development	3
MGT 3928	Management for Growth and	
	Sustainability	3
MGT 3942	Organizational Behavior	3
MGT 4501	Wealth Management	3
MGT 4806	Management Internship	
	(240 Hours)	3
MGT 4909	Communication in Management	3
MGT 4912	Individual Research	3
MGT 4916	Negotiation Strategy	3
MGT 4926	Compensation and Performance	
	Management	3
MGT 4927	Human Resources Planning	3
MGT 4928	Employment Relations and	
	Labor Law	3
MGT 4943	Organizational Development	3
MGT 4946	Human Resources Management	
	Internship (240 Hours)	3
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3525	Sales Management	3
MKT 3803	Retail Management	3
MKT 4805	Business-to-Business Marketing	3
MKT 4810	Export – Import Management	3
C. Free Elect	ive Courses 9 Cr	edits
	an select free elective courses	of 9
	any faculty in Assumption University	y upon
completion	of the prerequisites (if any).	
-		
Recommend	ded Free Elective Courses for	

Recommended Free Elective Courses for Commerce Concentration

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3
MKT 3515	Purchasing and Supply Chain	
	Management	3

STUDY PLAN

First and Second Year (Freshmen and Sophomore)

During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Management Major follow the program as mentioned below:

- 1. Ten Major Required Courses
- 2. Five Concentration Courses Plan A: Major Concentration Courses
- Or Plan B: Business Concentration Courses
- Or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR

ГΙ	ISL	Sell	lester	

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	Skills
	(For international students)	3
**************	Total	19

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18



SECOND YEAR First Semester

Course Code	Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

1) Third and Fourth Year of Study for All Concentrations except Commerce Concentration

THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
MGT 3903	Leadership	3
MGT 3905	Operations Management	3
MGT 3923	Strategic Human Resources	
	Management	3
	One Plan A OR Plan B	
	OR Plan C Course	3
	One Free Elective Course	3
	Total	18

Second Semester

Course Code	Course Title C	redits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2202	Ethics	3
GE 2101	World Civilization	3
IBM 2702	International Business Environment	t 3
MKT 2280	Principles of Marketing	3
	Total	18

Course Code	Course Title Ci	redits
BIS 4875	Strategic Technology Managemen	it 3
FIN 3714	Business Condition Analysis	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 3945	Managerial Decision Modeling	3
	One Plan A / Plan B / Plan C Course	3
	Total	18



2) Third and Fourth Year of Study for Commerce Concentration

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
FIN 4813	Financial Management	3
MGT 4910	Productivity and Quality	
	Management	3
MGT 4914	Entrepreneurship	3
MKT 4730	Marketing Management	3
	One Plan A / Plan B / Plan C Course	e 3
	One Free Elective Course	3
	Total	18

THIRD YEAR

First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
MGT 3901	Organization Theory	3
MGT 3905	Operations Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3940	Business Research Methodology	/ 3
	One Free Elective Course	3
****************	Total	18

Second Semester

Course Code	Course Title	Credits
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
	One Plan A / Plan B / Plan C Course	e 3
	One Plan A / Plan B /Plan C Course	e 3
	One Free Elective Course	3
Total	15	

Second Semester

Course Code	Course Title	Credits
BIS 3588	Digital Business Enterprise	3
FIN 3714	Business Condition Analysis	3
MGT 3907	Business Communication	3
MGT 3945	Managerial Decision Modeling	3
MKT 3525	Sales Management	3
MGT 4910	Productivity and Quality	
	Management	3
***************	Total	18

Summer Session

Course Code	Course Title	Credits
MKT 4810	Export-Import Management	3
	One Free Elective Course	3
	Total	6



FOURTH YEAR

First Semester

Course Code	Course Title Cr	
MGT 4945	Co-operative Education (720 Hours) 9
	Total	9

Course Code	Course Title	Credits
FIN 4813	Financial Management	3
MGT 4911	Seminar in Management	3
MGT 4951	Strategic Management	3
MGT 4914	Entrepreneurialship	3
MKT 4730	Marketing Management	3
	One Free Elective Course	3
Total	18	





DEPARTMENT OF FINANCE AND BANKING

Degree Conferred:

Bachelor of Business Administration (Finance and Banking) B.B.A. (Finance and Banking)

Program Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have theoretical financial principles, analytical tools, and practical knowledge for making ethical and sound financial decisions
- Develop a critical vision towards making successful strategic decisions in the business and the finance industries
- Enhance a solid financial knowledge and analytical skills required for successful business professions, further studies as well as professional accreditations
- Have ethical and moral behavior, positive attitudes and thinking, interpersonal and leadership skills, communication and presentation skills, IT skills and entrepreneurial skills

B. Specialized Courses

A. General E Language Co	40 Credits 15 Credits	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For international students)	3
Social Sciene	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	
GE 2202	Ethics	1 3
MGT 1101	Introduction to Business	3
Humanities Courses		6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	6 Credits	
BG 1200	Mathematics for Business	3
GE 1301 Environmental Science		3



93 Credits

Business Core Courses		8 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environme	
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Finance and Banking

Major Required Courses		30 Credits	
BIS 3589	Analysis Tools in Finance an	id	
	Accounting	3	
FIN 3711	Investment	3	
FIN 3713	Business Analysis and Valua	ation 3	
FIN 3714	Business Condition Analysis	5 3	
FIN 4812	International Finance	3	
FIN 4813	Financial Management	3	
FIN 4815	Bank Management	3	
FIN 4911	Quantitative Analysis of Fin	ancial	
	Decision	3	
FIN 4921	Corporate Strategy and Fin	ancial	
	Policies	3	
FIN 4922	Derivatives Securities	3	
Concentration		15 Credits	
Students must choose one of the three following plans as their concentration courses.			
Plan A: Major Concentration Courses 15 Credit			
or Plan B: Business Concentration Courses 15 Cre			
or Plan C: Major Elective Courses		15 Credits	



PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select a concentration in the major area and study the five specified courses.

Investment

 FIN 3727	Real Estate Investment Analysis	
FIN 3727	and Valuation	3
FIN 3728	Fixed Income Securities	3
FIN 4811	Risk Management	3
FIN 4817	Portfolio Management and Security	
	Analysis	3
FIN 4818	Seminar in Investment	3

Corporate Financial Management

FIN 3724	Financial Feasibility Planning	3
FIN 3726	Financial Statement Analysis	3
FIN 4811	Risk Management	3
FIN 4819	Contemporary Issues in Finance	3
FIN 4924	Advanced Financial Management	3

PLAN B – Business Concentration Courses 15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

Intermediate Accounting I	3
Intermediate Accounting II	3
Taxation I	3
Cost Accounting	3
Profits Planning and Control	3
	Intermediate Accounting II Taxation I Cost Accounting

Business Information Systems

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis and	
	Design	3
BIS 4675	Information Systems Project	
	Management	3

International Business Management

IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3

Industrial Management

IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	
	Management	3

Insurance

INS 3101	Principles of Risk Management and	
	Insurance	3
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4302	Accident, Group and Health	
	Insurance	3

Management

MGT 3915	Project Management	
MGT 3917	Innovation and Change Management	
MGT 3922	Introduction to New Ventures	
MGT 4910	Productivity and Quality Management	
MGT 4916	Negotiation Strategy	

Marketing

MKT 3525	Sales Management
MKT 3530	Consumer Behavior
MKT 4725	Competitive Analysis and Strategy
MKT 4730	Marketing Management
MKT 4809	Marketing for Services

Real Estate

REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Construction	
	Techniques	3
REM 3211	Principles of Real Estate Development	3

PLAN C - Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.

BIS 3348	Principles of Multimedia	3
BIS 3588	Digital Business Enterprises	3
BIS 3687	Electronic Banking and Payment	
	Systems	3
ECO 3715	Introduction to Econometrics	3
ECO 3722	Business Cycles and Forecasting	3
FIN 3715	Personal Finance	3
FIN 3716	Export-Import Procedure and	
	Financing	3
FIN 3723	Central Banking System and Policy	3
FIN 3724	Financial Feasibility Planning	3
FIN 3725	Managerial Economics	3
FIN 3726	Financial Statement Analysis	3
FIN 3727	Real Estate Investment Analysis and	
	Valuation	3
FIN 3728	Fixed Income Securities	3
FIN 3733	Institutional Banking for Emerging	
	Markets	3
FIN 3734	Financial Mathematics	3
FIN 4721	Laws and Practices in Finance	3
FIN 4811	Risk Management	3
FIN 4817	Portfolio Management and Security	
	Analysis	3
FIN 4818	Seminar in Investment	3
FIN 4819	Contemporary Issues in Finance	3
FIN 4821	Behavioral Finance	3
FIN 4822	Individual Research	3
FIN 4832	Entrepreneurial Finance	3
FIN 4833	Wealth Management	3
FIN 4923	Advanced Valuation	3
FIN 4924	Advanced Financial Management	3
FIN 4925	Introduction to Modeling	3
REM 3213	Real Estate Appraisal	3

C. Free Elective Courses

9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

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Assumption University of Thailand | Department of Finance and Banking

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Finance and Banking Major follow the Finance and Banking program of studies:

1. Ten Major Required Courses

2. Five Concentration Courses

Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses

3. Three Free Elective Courses

FIRST YEAR First Semester

Course Code Course Title		Credits
BG 1001	English l	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law l	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Ski	lls
	(For international students)	3
To	otal	19

Second Semester

Course Code Course Title		Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
Т	otal	18

SECOND YEAR First Semester

inst Semester

Course Code Course Title		Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
Total		18

Course Cod	e Course Title	Credits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environme	nt 3
MKT 2280	Principles of Marketing	3
То	tal	18



THIRD YEAR First Semester

Course Code Course Title		Credits
BIS 3340	Computer Tools in Research	0
BIS 3589	Analysis Tools in Finance and	
	Accounting	3
FIN 3701	Corporate Finance	3
FIN 3714	Business Condition Analysis	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
	One Free Elective Course	3
Tc	tal	18

FOURTH YEAR First Semester

list semester

FIN 4812	International Finance	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3
FIN 4911	Quantitative Analysis of Financial	
	Decisions	3
	Two Plan A / Plan B / Plan C Course	s 6
Te	otal	18

Second Semester

Course Cod	e Course Title	Credits
FIN 3711	Investment	3
FIN 3713	Business Analysis and Valuation	3
MGT 3940	Business Research Methodology	3
	Two Plan A / Plan B / Plan C Courses	6
	One Free Elective Course	3
Total		18

Course Code Course Title		
FIN 4921	Corporate Strategies and Financia	al
	Policies	3
FIN 4922	Derivatives Securities	3
MGT 4914	Entrepreneurship	3
	One Plan A / Plan B / Plan C Course	3
	One Free Elective Course	3
Total		



DEPARTMENT OF ACCOUNTING

Degree Conferred:	Bachelor of Business Administration (Accounting) B.B.A. (Accounting)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Have knowledge of accounting principles; possess analytical tools and practical knowledge and skills to make sound accounting decision Flexible, competent and well-rounded in confronting and solving accounting, financing, and related business problems. Able to apply accounting principles in the practice of their profession. Able to work as a team and motivate others to work. Have positive attitude towards the accounting professions, interpersonal, calculation, analytical, communication and presentation skills, and IT skills

A. General Education Courses Language Courses		40 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	
BG 2001	English IV	3 3 3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For international students)	3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	1 3
MGT 1101	Introduction to Business	3
Humanities	Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404		3
inor 2 io i	managenar of choregy	
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



B. Specialize Business Cor		6 Credits 3 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environme	ent 3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Accounting

Major Required Courses		36 Credits
ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3608	Financial Report and	
	Financial Statement Analysis	3
ACT 3614	Taxation I	3
ACT 3615	Taxation II	3
ACT 3622	Cost Accounting	3
ACT 3643	Auditing	3
ACT 3644	Internal Control and Audit	3
ACT 4607	Advanced Accounting I	3
ACT 4608	Advanced Accounting II	3
ACT 4611	Seminar in Accounting	3
ACT 4646	Accounting Information System	ns 3

Concentration Courses

Students must choose one of the two	following plans
as their concentration courses.	
Plan A: Major Concentration Courses	12 Credits
OR Plan B: Business Concentration	
Courses	12 Credits

PLAN A: MAJOR CONCENTRATION COURSES

Students must o	hoose	one	of	the	four	following
tracks as their majo	or conce	entrat	ion	cours	ses.	
Track A: Auditing					12	2 Credits
OR Track B: Financial Accounting 12 Credits				2 Credits		
OR Track C: Managerial Accounting 12 Credits						
OR Track D: Others					12	2 Credits

Auditing

3
3
3
3

Financial Accounting

3
3
3
3

Managerial Accounting

Cost Management	3
Profits Planning and Control	3
Seminar in Management	
Accounting	3
Accounting Software Package	3
	Profits Planning and Control Seminar in Management Accounting

Others ------

Students pursuing Track D must select four major elective courses.

Code	Subjects	Credits
ACT 3606	Public Sector and Fund Accountin	g 3
ACT 3623	Cost Management	3
ACT 3624	Real Estate Accounting	3
ACT 3625	Hospital Accounting	3
ACT 3626	Hotel Accounting	3
ACT 3629	Profits Planning and Control	3
ACT 4605	International Accounting	3
ACT 4609	Accounting Theory	3
ACT 4612	Independent Study	3
ACT 4624	Seminar in Management	
	Accounting	3
ACT 4641	Problems in Auditing	3
ACT 4643	Seminar in Auditing	3
ACT 4647	Accounting Software Package	3
ACT 4648	EDP Auditing	3
ACT 4649	Accounting Internship (135 Hours	3)

PLAN B – Business Concentration

Courses

12 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the specified courses.

Business Information Systems

Programming and Algorithms	3
Database Systems	3
Data Communications and	з
Information Systems Analysis	5
and Design	3
	Database Systems Data Communications and Networking Information Systems Analysis

Finance and Banking

FIN 3711	Investment	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3



Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Marketing

MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and Strateg	jy 3
MKT 4730	Marketing Management	3
C. Free Elec	tive Courses 6	Credits

C. Free Elective Courses

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior year, students who select the Accounting Major follow the Accounting program of studies:

- **Twelve Major Required Courses**
- Four Concentration Courses
- Plan A: Major Concentration Courses
- OR Plan B: Business Concentration Courses
- **Two Free Elective Courses**

FIRST YEAR First Semester

Code	Subjects Cre	dits
BG 1001 BG 1200	English I Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skills	
	(For international students)	3
	Total	19

Code	Subjects	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester

Code	Subjects	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

THIRD YEAR First Semester

Code	Subjects	Credits
ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3608	Financial Report and Financial	3
	Statement Analysis	
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
	Total	18

Second Semester

Code	Subjects C	redits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environmen	t 3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester

Code	Subjects	Credits
ACT 3615	Taxation II	3
ACT 3643	Auditing	3
ACT 3644	Internal Control and Audit	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
	Total	18

FOURTH YEAR First Semester

Code	Subjects	Credits
ACT 4607	Advanced Accounting I	3
ACT 4608	Advanced Accounting II	3
ACT 4646	Accounting Information Systems	3
MGT 4914	Entrepreneurship	3
	Two Plan A / Plan B Course	6
	Total	18

Code	Subjects	Credits
ACT 4611	Seminar in Accounting	3
	Two Plan A / Plan B Course	6
	Two Free Elective Course	6
	Total	15

DEPARTMENT OF BUSINESS INFORMATION SYSTEMS

Degree Conferred:

Bachelor of Business Administration (Business Information Systems) B.B.A. (Business Information Systems)

Program Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Morally sound, committed to acting justly and open to further growth.
- Have knowledge and thorough understanding of concepts, frameworks, principles, theories and necessary technical skills to work as a full potential business information systems professional.
- Able to understand and apply technology knowledge to every aspect of the management and the organization.
- Able to interpret information, make business analysis and forecasting useful for business decision making.

B. Specialized Courses

- Flexible, competent and well-rounded in confronting and solving business problems.
- · Able to work as a team and motivate others to work.
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

A. General Education Courses Language Courses		40 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For international students)	3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities Courses 6 Cre		
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and Mathematics Courses		6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3

Business Co	re Courses 4	5 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environm	
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

96 Credits

Assumption University of Thailand | Department of Business Information Systems

Major Requ	ired Courses	42 Credits
BIS 2180	Information Technology	- 3
BIS 3315	Programming and Algorithms	3
BIS 3348	Principles of Multimedia	3
BIS 3516	Object-Oriented Programming	J 3
BIS 3617	Web Design and Programming	j 3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4625	Computer Organization	3
BIS 4675	Information Systems Project	
	Management	3
BIS 4697	Current Topics in Business	
	Information Systems	3
BIS 4787	Data Structure	3
BIS 4858	Information Systems Security	3
BIS 4996	BIS Senior Project	3

9 Credits

Major Elective Courses

BIS 4875	Strategic Technology Manageme	ent 3
BIS 4878	Software Risk Management	3
BIS 4886	Business Information Systems	
	Directed Study I	3
BIS 4887	Business Information Systems	
	Directed Study II	3
BIS 4897	Seminar in Business Information	
	Systems	3
TS 4261	Internetworking Workshop I	4
TS 4262	Internetworking Workshop II	4
C. Free Elective Courses 6 Cred		6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

	select any three courses from the	
following.		-
BIS 3567	Human Computer Interaction	3
BIS 3577	Online Media for Business	3
BIS 3587	Principles of Electronic Commerce	3
BIS 3588	Digital Business Enterprise	3
BIS 3589	Analysis Tools in Finance and	
	Accounting	3
BIS 3618	Selected Programming Language	3
BIS 3647	Digital VDO Editing	3
BIS 3687	Electronic Banking and Payment	
	Systems	3
BIS 4698	Selected Topics in Business	
	Information Systems	3
BIS 4699	Advanced Topics in Business	
	Information Systems	3
BIS 4718	Web Applications Development	3
BIS 4747	Graphics and Animation	3
BIS 4748	3-D Modeling and Animation	3
BIS 4758	Local Area Network	3
BIS 4766	Business Process Reengineering	3
BIS 4788	Data Warehouse and Data Mining	3
BIS 4789	Mobile Applications	3
BIS 4848	Integrated Multimedia Applications	3



STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select

the Business Information Systems Major follow the Business Information Systems program of studies:

1. Fourteen Major Required Courses

2. Three Major Elective Courses

3. Two Free Elective Courses

FIRST YEAR First Semester

Course Code Course Title
Course Code Course Hue

Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sl	cills
	(For international students)	3
	Total	19

Second Semester

Course Cod	e Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester

Course Code Course Title		Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

C	ourse Code	e Course Title	Credits
B	G 2001	English IV	3
FI	N 2700	Money, Banking and Financial	
		Markets	3
G	E 2101	World Civilization	3
G	E 2202	Ethics	3
IB	M 2702	International Business Environme	nt 3
M	KT 2280	Principles of Marketing	3
		Total	18



THIRD YEAR First Semester

Course Coo	de Course Title	Credits
BIS 3315	Programming and Algorithms	3
BIS 3340	Computer Tools in Research	0
BIS 3348	Principles of Multimedia	3
BIS 3617	Web Design and Programming	3
BIS 3635	Database Systems	3
FIN 3701	Corporate Finance	3
	One Major Elective Course	3
	Total	18

Second Semester

Course Cod	e Course Title	Credits
BIS 3516	Object-Oriented Programming	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information System Analysis and	
	Design	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
	Total	18

FOURTH YEAR First Semester

Course Cod	e Course Title	Credits
BIS 4625	Computer Organization	3
BIS 4675	Information Systems Project	
	Management	3
BIS 4697	Current Topics in Business	
	Information Systems	3
BIS 4787	Data Structure	3
MGT 4914	Entrepreneurship	3
	One Major Elective Course	3
	Total	18

Course Code Course Title		Credits
BIS 4858	Information Systems Security	3
BIS 4996	BIS Senior Project	3
	One Major Elective Course	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	15
DEPARTMENT OF HOSPITALITY & TOURISM MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (Hospitality and Tourism Management) B.B.A. (Hospitality and Tourism Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth Posses knowledge of the principles and theories of hospitality and tourism management. Understand and have awareness of hospitality and tourism management professional standards and ethics Able to apply analytical tools and conceptual frameworks to solve business problems. Equipped with necessary leadership, managerial, and technical skills needed in today's organizations Able to work as a team and motivate others to work

• Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

A. General Education Courses 40 Credits		
Language Co	15 Credits	
BG 1001	English I	3
BG 1001 BG 1002	English II	3
BG 2000	English III	3
BG 2000	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	
	(For international students)	3
	,,	
Social Science	e Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities (Courses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
		1.5 10
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



B. Specialized Courses Business Core Courses

93 Credits 48 Credits

ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and	
	Financial Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Hospitality and Tourism Management

Major Requi	red Courses	30 Credits
HTM 3001	Sustainable Tourism	3
HTM 3002	Business Operation and Leader	ship
	in Hospitality and Tourism	3
HTM 3003	Information Technology in	
	Hospitality and Tourism	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism	
	Management	3
HTM 3103	Consumer Behavior in Hospital	ity
	and Tourism Industry	3
HTM 3204	Human Resource Management	
	in Hospitality and Tourism	3
HTM 3205	Marketing in Hospitality	
	and Tourism	3
HTM 3211	Food and Beverage Manageme	nt 3
HTM 4210	Strategic Management in	
	Hospitality and Tourism	3
Concentratio	on Courses	
	ist choose one of the three follow r concentration course.	ving

spitality Management ncentration Courses in	15 Credits
ncentration Courses in	
irism Management	15 Credits
siness Concentration	
urses	15 Credits
ncentration Courses in	
spitality Management	15 Credits
	Irism Management siness Concentration urses ncentration Courses in spitality Management

Students pursuing PLAN A must study the five specified courses.

HTM 4111	Food and Beverage Service	3
HTM 4112	Kitchen Operation	3
HTM 4301	Room Division Management	3
HTM 4302	Event Management	3
HTM 4303	Service Management	3

PLAN B –	Concentration Courses in Tourism Management	15 Credits
Students pu specified co	irsuing PLAN B must study the fi urses.	ve
HTM 4401	Tourism Policy and Developm	ent 3
HTM 4402	Tourism Destination Manager	
HTM 4403	Tour Guiding and Operation in	
	Practice	3
HTM 4404	Cultural Heritage Tourism	3
HTM 4405	International Tourism Studies	3
PLAN C –	Business Concentration Cours	es
concentratio	rsuing PLAN C must select a on in other business areas and re specified courses.	-
usiness Info	ormation System	

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis and Design	з
BIS 4675	3	3
DI3 4073	Information Systems Project management	3

International Business Management

IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3

Management

MGT 3915	Project Management	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality	
	Management	3
MGT 4916	Negotiation Strategy	3

Marketing

MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3



C. Free Elective Courses

9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the pre-requisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Hospitality and Tourism Management Major follow the Hospitality and Tourism Management program of studies:

1. Ten Major Required Courses

2. Five Concentration Courses		
Plan A:	Major Concentration Courses in	
	Hospitality Management	
Or Plan B:	Major Concentration Courses in	
	Tourism Management	
Or Plan C:	Business Concentration Courses	
3. Three Free Elective Courses		

Assumption University of Thailand | Department of Hospitality and Tourism Management

FIRST YEAR First Semester

Course Code	Course Title Cre	dits
BG 1001	English l	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skills	
	(For international students)	3
	Total	19

SECOND YEAR First Semester

	-	~	~	- '	1	-	-	~	
	_			_		_	_		

Course Title	Credits
Fundamentals of Managerial	
Accounting	3
English III	3
Macroeconomics	3
Information Technology	3
Managerial Psychology	3
Principles of Management	3
Total	18
	Fundamentals of Managerial Accounting English III Macroeconomics Information Technology Managerial Psychology Principles of Management

Second Semester

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

Course Code	Course Title C	redits
BG 2001	English IV	3
FIN 2700	Money, Banking and	
	Financial Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environment	t 3
MKT 2280	Principles of Marketing	3
	Total	18



THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism	
	Management	3
HTM 3103	Consumer Behavior in	
	Hospitality and Tourism Industry	3
	Two Free Elective Courses	6
	Total	18

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
HTM 3002	Business Operation and	
	Leadership in Hospitality	
	and Tourism	3
HTM 3003	Information Technology in	
	Hospitality and Tourism	3
HTM 3204	Human Resource Management in	1
	Hospitality and Tourism	3
HTM 4210	Strategic Management in	
	Hospitality and Tourism	3
	Two Plan A / Plan B /	
	Plan C Courses	6
	Total	18

Second Semester

Course Code	Course Title	Credits
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
HTM 3211	Food and Beverage Management	3
HTM 3001	Sustainable Tourism	3
HTM 3205	Marketing in Hospitality	
	and Tourism	3
	Total	18

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship	3
	Three Plan A / Plan B /	
	Plan C Courses	9
	One Free Elective Course	3
	Total	15



DEPARTMENT OF INTERNATIONAL BUSINESS MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (International Business Management) B.B.A. (International Business Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows: Morally sound, committed to acting justly and open to further growth. Have knowledge of the principles and theories in the functional areas and able to apply with respect to international business, Possess analytical tools and practical knowledge to acquire proficiency in international business from an interdisciplinary perspective Able to apply analytical tools and conceptual frameworks to solve business problems. Able to work as a team and motivate others to work. Have positive attitude, interpersonal, communication and presentation

skills, IT skills and entrepreneurial skills.

A. General E Language Co	40 Credits 15 Credits	
		-
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For international students)	3
Social Science	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
	c.	
Humanities	Courses	6 Credits
GE 2101	World Civilization	
MGT 2404		3
MG1 2404	Managerial Psychology	2
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
	Linnonmental Science	5



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B. Specialize	ed Courses 9.	3 Credits
Business Co	re Courses 48	8 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environme	ent 3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of International Business Management

Major Requ	ired Courses 30 G	Credits
BIS 3588	Digital Business Enterprise	3
FIN 4812	International Finance	3
MKT 3620	Global Marketing	3
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4711	International Human Resource	
	Management	3
IBM 4715	Designing and Managing Global	
	Operations	3
IBM 4809	International Business Research	3
IBM 4811	International Strategic Manageme	nt 3

Concentration Courses

Students must choose one of the three following plans as their concentration courses.

15 Credits
15 Credits
15 Credits

PLAN A:

Major Concentration Courses 15 Credits Students pursuing PLAN A must select the concentration in the major area and study the five specified courses.

International Marketing

International Buyer Behavior	3
International Marketing	
Communications	3
International Pricing Strategy	3
Global Supply Chain	
Management	3
International Product and	
Brand Planning	3
	International Marketing Communications International Pricing Strategy Global Supply Chain Management International Product and

PLAN B:

Business Concentration Courses 15 Credits Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses. Accounting

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3
ACT 3029	Tonts Hanning and control	5
Business Inf	formation Systems	
BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications	
	and Networking	3
BIS 3666	Information Systems	
	Analysis and Design	3
BIS 4675	Information Systems	5
	Project Management	3
	riojeet Management	5
Finance and	l Banking	
FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis	
	and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3
Hospitality a	and Tourism Management	
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3203	Food and Beverage Management	3
	rood and beverage management	2
Marketing		
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and	
	Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
		5



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PLAN C: MAJOR ELECTIVE COURSES / FOREIGN LANGUAGE COURSES

Students pursuing PLAN C must select any five major elective/foreign Language courses.

ACT 4605	International Accounting
BIS 3587	Principles of Electronic
	Commerce
ECO 3716	International Trade
FIN 3724	Financial Feasibility Planning
IBM 3642	International Buyer Behavior
IBM 3643	International Marketing
	Communications
IBM 3722	Legal and Ethical Issues in
	International Business
IBM 3723	International Relations
IBM 3841	International Pricing Strategy
IBM 4820	International Cooperative
	Strategies
IBM 4840	Global Supply Chain
	Management
IBM 4841	International Services Marketing
IBM 4843	International Product and
	Brand Planning
IBM 4921	Individual Research
IBM 4923	Seminar in Regional Studies
MGT 4916	Negotiation Strategy

Business French

FR 1500	Introduction to French
FR 1501	French I
FR 2501	French II
FR 3535	Basic Conversation in
	Business French I
FR 3536	Basic Writing in Business
	French I

Business Chinese

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
Business Ja		-
JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3
	One Elective Course	3
Any cours	e form the Business Japanese	Department
upon com	pletion of the prerequisites (if any	y)
C Free Flee	ctive Courses	Q Cradite

C. Free Elective Courses 9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Assumption University of Thailand | Department of International Business Management

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/ her ability, background, and preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the International Business Management Major follow the International Business Management program of studies:

- 1. Ten Major Required Courses
- 2. Five Concentration Courses
- Plan A: Major Concentration Courses
- Or Plan B: Business Concentration Courses
- Or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR

First Semester

Code	Subjects C	Iredits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Ski	lls
	(For international students)	3
	Total	19

Second Semester

Code	Subjects	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester

Code	Subjects	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
FIN 2700	Money, Banking and	
	Financial Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business	
	Environment	3
MKT 2280	Principles of Marketing	3
	Total	18

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THIRD YEAR First Semester

Code	Subjects	Credits
BIS 3340	Computer Tools in Research	0
BIS 3588	Digital Business Enterprise	3
FIN 3701	Corporate Finance	3
IBM 3711	Comparative Management	3
MKT 3620	Global Marketing	3
	One Plan A / Plan B /	
	Plan C Course	3
	One Plan A / Plan B /	
	Plan C Course	3
	Total	18

18

Second Semester

Code	Subjects	Credits
IBM 3713	International Management	3
IBM 3714	Export-Import Policy	
	and Strategy	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research	
	Methodology	3
	One Plan A / Plan B /	
	Plan C Course	3
	Total	18

FOURTH YEAR First Semester

Code	Subjects	Credits
FIN 4812	International Finance	3
IBM 4711	International Human	
	Resource Management	3
IBM 4715	Designing and Managing	
	Global Operations	3
IBM 4809	International Business Research	3
	One Plan A / Plan B /	
	Plan C Course	3
	One Free Elective Courses	3
	Total	18

Code	Subjects	Credits
IBM 4811	International Strategic	
	Management	3
MGT 4914	Entrepreneurship	3
	One Plan A / Plan B /	
	Plan C Course	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	15



DEPARTMENT OF INDUSTRIAL MANAGEMENT

Degree Conferred:	Bachelor of Business Administration (Industrial Management) B.B.A. (Industrial Management)
Program Objectives:	 To produce graduates who have the characteristics, knowledge and skills as follows Morally sound, committed to acting justly and open to further growth Posses knowledge of the principles and theories in the functional areas and able to apply with respect to industry. Possess analytical tools and practical knowledge to acquire proficiency in industry from an interdisciplinary perspective. Able to apply analytical tools and conceptual frameworks to solve business problems. Able to work as a team and motivate others to work. Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

A. General Education Courses Language Courses		40 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	on Skills
	(For international students)	3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities Courses		6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and Mathematics Courses		6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



93 Credits

B. Specialized Courses

Business Co	re Courses 4	18 Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environm	ent 3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Industrial Management

Major Requi	red Courses 30 Credi	its
IDM 3200	Quantitative Analysis	3
IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4202	Production Costing and Budgeting	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental Management	3
IDM 4208	Project Analysis and Management	3
IDM 4302	Industrial Strategic Management	3
IDM 4501	Seminar in Industrial Management	3

15 Credits

Student must choose one of the three following plans as their concentration courses.

Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses

Concentration Courses

PLAN A - Major Concentration Courses

Students pursuing PLAN A must select one of the two following concentrations in the major area and study the five specified courses.

Logistics and Supply Chain Management

IDM 3306	Warehousing and Material Handling	3
IDM 3307	Transportation and Distribution	
	Management	3
IDM 3308	Supply Chain Relationship	
	Management	3
IDM 4301	Information Technology in Supply	
	Chain	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
	_	

Manufacturing Management

IDM 3202	Motion and Time Study	3
IDM 3402	Facility Management	3
IDM 3403	Industrial Engineering Management	3
IDM 4301	Information Technology in Supply	
	Chain	3
IDM 4401	Technology and Innovation	
	Management	3

PLAN B – Business Concentration Courses

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3

Business Information Systems

BIS 3315	Programming and Algorithms	
BIS 3635	Database Systems	
BIS 3655	Data Communications and	
	Networking	
BIS 3666	Information Systems Analysis and Design	
BIS 4675	Information Systems Project Management	

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Finance and Banking

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FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3

Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Insurance

	Drin sinds of Disk Management and	
INS 3101	Principles of Risk Management and	2
	Insurance	2
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4302	Accident, Group and Health	
	Insurance	3



3 3 3

International Business Management

IBM 3711 IBM 3713 IBM 3714	Comparative Management International Management Export-Import Policy and Strategy	3 3 3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3
Marketing		
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3

MKT 3530	Consumer Behavior
MKT 4725	Competitive Analysis and Strategy
MKT 4730	Marketing Management
MKT 4809	Marketing for Services

Real Estate

REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Construction	
	Techniques	3
REM 3211	Principles of Real Estate	
	Development	3

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five courses from the following list.

IDM 3202	Motion and Time Study	3
IDM 3306	Warehousing and Material Handling	3
IDM 3307	Transportation and Distribution	
	Management	3
IDM 3308	Supply Chain Relationship	
	Management	3
IDM 3402	Facility Management	3
IDM 3403	Industrial Engineering Management	3
IDM 4207	Internship in Industrial	
	Management (300 Hours)	3
IDM 4301	Information Technology in Supply	
	Chain	3
IDM 4401	Technology and Innovation	
	Management	3
MGT 3903	Leadership	3
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3
MGT 4928	Employment Relations and Labor Law	3
MKT 3515	Purchasing and Supply Chain	
	Management	3
MKT 3530	Consumer Behavior	3

	MKT 3803	Retail Management	3		
	MKT 4730	Marketing Management	3		
	MKT 4806	Product and Brand Managemen	t 3		
	MKT 4810	Export-Import Management	3		
	Foreign Language Courses Business Chinese				
	CN 0400	Chinese for Beginners I	3		
	CN 0401	Chinese for Beginners II	3		
	CN 1400	Introduction to Chinese	3		
	CN1401	Chinese I	3		
	CN 2401	Chinese II	3		
	Business French				
	FR 1500	Introduction to French	3		
	FR 1501	French I	3		
	FR 2501	French II	3		
	FR 3535	Basic Conversation in Business			
		French I	3		
	FR 3536	Basic Writing in Business French	I 3		
	Business Japanese				
	JA 1700	Introduction to Japanese	3		
	JA 1701	Japanese I	3		
	JA 2701	Japanese II	3		
	JA 2702	Japanese III	3		
One Elective Course			3		
	C. Free Electi	ve Courses	9 Credits		

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Assumption University of Thailand | Department of Industrial Management

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Industrial Management Major

follow the Industrial Management program of studies:

- 1. Ten Major Required Courses
- 2. Five Concentration Courses Plan A: Major Concentration Courses
- or Plan B: Business Concentration Courses
- or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR First Semester

Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sk	ills
	(For international students)	3
	Total	19

Second Semester

Course Cod	e Course Title	Credits
ACT 1600	Fundamentals of Financial Accountin	g 3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester

Course Code Course Title		Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

Course Cod	e Course Title	Credits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
MKT 3905	Operations Management	3
MKT 2280	Principles of Marketing	3
	Total	18



THIRD YEAR First Semester

Course Cod	e Course Title C	redits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 3907	Business Communication	3
IDM 3200	Quantitative Analysis	3
IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
	Total	18

FOURTH YEAR First Semester

I	ł	2	L.	5	CI	16	 u	-	

Course Code Course Title					
IDM 4206 IDM 4208	Industrial Environmental Manageme Project Analysis and Management One Plan A / Plan B / Plan C Course One Plan A / Plan B / Plan C Course One Plan A / Plan B / Plan C Course One Free Elective Course	3 3 3			
	Total	18			

Second Semester

Course Code Course Title Cr				
IDM 4201	Manufacturing Planning and Cont			
IDM 4202	Production Costing and Budgeting			
IDM 4203	Quality Management	3		
MGT 3940	Business Research Methodology	3		
	One Plan A / Plan B / Plan C Course			
	One Plan A / Plan B / Plan C Course	9 3		
	Total	18		

	e Course Title	creates
MGT 4914	Entrepreneurship	3
IDM 4302	Industrial Strategic Management	3
IDM 4501	Seminar in Industrial Managemen	t 3
	Two Free Elective Courses	6
	Total	15



DEPARTMENT OF REAL ESTATE

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		IEE		nfer	reu	

Program Objectives:

B.B.A. (Real Estate)

Bachelor of Business Administration (Real Estate)

To produce graduates who have the characteristics, knowledge and skills as follows:

- Morally sound, committed to acting justly and open to further growth.
- Possess knowledge of real estate principles and essential methods, analytical minds and practical knowledge to make sound real estate business decision
- Demonstrate flexibility in different situations and competence in confronting and solving business problems.
- Able to work as a team and motivate others to work.
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills

A. General Ed Language Cou	40 Credits 15 Credits	
BG 1001	3	
BG 1002	English I English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	ion Skills
	(For international students)	3
Social Science	13 Credits	
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities Co	ourses	6 Credits
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and M	6 Credits	
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3



3. Specialized Courses93 CredBusiness Core Courses48 Cred		
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3 3 3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and	
	Financial Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Real Estate

Major Requir	30 Credits	
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Const	ruction
	Techniques	3
REM 3211	Principles of Real Estate	
	Development	3
REM 3212	Real Estate Finance	3
REM 3213	Real Estate Appraisal	3
REM 3214	Principles of Real Estate	
	Investment Analysis	3
REM 4112	Computer Applications in	
	Real Estate	3
REM 4113	Principles of Property	
	Management	3

Concentration Courses

	ist choose one of the three fo r concentration courses.	llowing
Plan A:	Major Concentration	
	Courses	15 Credits
Or Plan B:	Business Concentration	
	Courses	15 Credits
Or Plan C:	Major Elective Courses	15 Credits
PLAN A - Ma	ajor Concentration Courses	15 Credits

Students pursuing PLAN A must select one of the three following concentrations in the major area and study the five specified courses.

Real Estate Development

REM 4131	Real Estate Project Management	3
REM 4132	Advanced Real Estate Investment	
	Analysis	3
REM 4191	Seminar in Real Estate Business	3
REM 4231	Real Estate Marketing and	
	Brokerage Management	3
REM 4381	Internship in Real Estate	
	Business (300 hours)	3

Property Valuation

REM 4141	Advanced Real Estate Appraisal	
REM 4142	Professional Appraisal	
	Practice and Ethics	
REM 4192	Seminar in Property Valuation	
REM 4241	Valuation for Special Purposes	
REM 4382	Internship in Real Estate	
	Appraisal (300 hours)	

Property Management

REM 4151	Corporate Real Estate	
	Management	3
REM 4152	Facilities Operations and	
	Maintenance	3
REM 4193	Seminar in Property Managemen	t 3
REM 4251	Income-producing Property	
	Management	3
REM 4383	Internship in Property	
	Management (300 hours)	3
PLAN B – Bus	iness Concentration Courses 15 C	redits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3

Business Economics

ECO 3711	Intermediate Microeconomics	3
ECO 3712	Intermediate Macroeconomics	3
ECO 3716	International Trade	3
ECO 4711	International Macroeconomics	3
ECO 4726	Business and Government	3

Business Information Systems

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	2
DIC 1/775	and Design	3
BIS 4675	Information Systems Project	
	Management	3

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3

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Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

Industrial Management

industrial management			
IDM 3203	Logistics and Supply Chain Management		
IDM 3204	Industrial Safety and Risk Management		
IDM 4201	Manufacturing Planning and Control		
IDM 4203	Quality Management		
IDM 4206	Industrial Environmental		
	Management		
Insurance			
INS 3101	Principles of Risk Management and Insurance		
INS 3201	Property Insurance		
INS 3202	Casualty Insurance		
INS 3301	Principles of Life Assurance		
INS 4302	Accident, Group and Health Insurance		

International Business Management

IBM 3711	Comparative Management
IBM 3713	International Management
IBM 3714	Export-Import Policy
	and Strategy
IBM 4811	International Strategic
	Management
MKT 3620	Global Marketing

Management

MGT 3915	Project Management	
MGT 3917	Innovation and Change	
	Management	
MGT 3922	Introduction to New Ventures	
MGT 4910	Productivity and Quality	
	Management	
MGT 4916	Negotiation Strategy	

Marketing

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3

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MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and	
	Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.

REM 4131	Real Estate Project Management	3
REM 4132	Advanced Real Estate Investment	
	Analysis	3
REM 4141	Advanced Real Estate Appraisal	3
REM 4142	Professional Appraisal Practice	
	and Ethics	3
REM 4151	Corporate Real Estate	
	Management	3
REM 4152	Facilities Operations and	
	Maintenance	3
REM 4191	Seminar in Real Estate Business	3
REM 4192	Seminar in Property Valuation	3
REM 4193	Seminar in Property Management	3
REM 4221	Directed Study in Real Estate	3
REM 4222	Capital Markets Related to Real	
	Estate Business	3
REM 4231	Real Estate Marketing and	
	Brokerage Management	3
REM 4241	Valuation for Special Purposes	3
REM 4251	Income-producing Property	
	Management	3
REM 4381	Internship in Real Estate	
	Business (300 hours)	3
REM 4382	Internship in Real Estate	
	Appraisal (300 hours)	3
REM 4383	Internship in Property	
	Management (300 hours)	3
C Free Fle	ctive Courses 9 Cre	dits

C. Free Elective Courses 9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Assumption University of Thailand | Department of Real Estate

STUDY PLAN

First and Second Year (Freshmen and Sophomore) During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior)

During the junior and senior years, students who select the Real Estate Major follow the Real Estate program of studies:

1. Ten Major Required Courses

2. Five Concentration Courses Plan A: Major Concentration Courses

or Plan B: Business Concentration Courses or Plan C: Major Elective Courses 3. Three Free Elective Courses

FIRST YEAR First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	n Skills
	(For international students)	3
	Total	19

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18



SECOND YEAR First Semester

Course Code	Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18
	lotal	18

THIRD YEAR First Semester

Course Code	Course Title (Credits
BIS 3340	Computer Tools in Research	0
FIN 3701	Corporate Finance	3
MGT 3905	Operations Management	3
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and Constructio	n
	Techniques	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 2001 FIN 2700	English IV Money, Banking and Financial	3
	Markets	3
GE 2202	Ethics	3
GE 2101	World Civilization	3
IBM 2702	International Business	
	Environment	3
MKT 2280	Principles of Marketing	3
	Total	18

Course Code	Course Title	Credits
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	/ 3
REM 3211	Principles of Real Estate	
	Development	3
REM 3212	Real Estate Finance	3
REM 3213	Real Estate Appraisal	3
REM 4113	Principles of Property	
	Management	3
	Total	18

Assumption University of Thailand | Department of Real Estate

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
REM 3214	Principles of Real Estate	
	Investment Analysis	3
REM 4112	Computer Applications in	
	Real Estate	3
	One Free Elective Course	3
	One Plan A / Plan B / Plan C Course	e 3
	One Plan A / Plan B / Plan C Course	3
	One Plan A / Plan B / Plan C Course	e 3
	Total	18

* Plan A – Internship in Summer Session Summer Session (Only for Plan A)

Course Title	Credits
Internship in Real Estate	
Business (300 hours)	3
Internship in Real Estate	
Appraisal (300 hours)	3
Internship in Property	
Management (300 hours)	3
Total	3
	Internship in Real Estate Business (300 hours) Internship in Real Estate Appraisal (300 hours) Internship in Property Management (300 hours)

Course Code	Course Title	Credits
MGT 4914	Entrepreneurship	3
	One Plan A / Plan B / Plan C Cours	e 3
	One Plan B / Plan C Course*	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	15 or 12

DEPARTMENT OF INSURANCE

Degree Conferred:

Bachelor of Business Administration (Insurance) B.B.A. (Insurance)

Program Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Morally sound, committed to acting justly and open to further growth.
- Possess knowledge of the principles and theories of insurance and able to apply them to insurance business,
- Understand and have awareness of insurance professional standards and ethics.
- Able to apply analytical tools and conceptual frameworks to solve business problems.
- Able to work as a team and motivate others to work.
- Have positive attitude, interpersonal, communication and presentation skills, IT skills and entrepreneurial skills.

B Specialized Courses

A. General E Language C	ducation Courses ourses	40 Credits 15 Credits
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403 or GE 1401	English I English II English III English IV Communication in Thai Language and Communicatio (For international students)	
Social Scien	ce Courses	13 Credits
BG 2400 BG 2401 GE 1204 GE 2202 MGT 1101	Macroeconomics Microeconomics Physical Education Ethics Introduction to Business	3 3 1 3 3
Humanities	Courses	6 Credits
GE 2101 MGT 2404	World Civilization Managerial Psychology	3
Science and Mathematics Courses		6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3



93 Credits

B. Specialize		realts
Business Cor	e Courses 48 Ci	redits
ACT 1600	Fundamentals of Financial	
	Accounting	3
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
BIS 3340	Computer Tools in Research	0
FIN 2700	Money, Banking and Financial	
	Markets	3
FIN 3701	Corporate Finance	3
IBM 2702	International Business Environment	3
MGT 2900	Principles of Management	3
MGT 3905	Operations Management	3
MGT 3907	Business Communication	3
MGT 3940	Business Research Methodology	3
MGT 4914	Entrepreneurship	3
MKT 2280	Principles of Marketing	3

Assumption University of Thailand | Department of Insurance

Major Requ	lired Courses	30 Credits
INS 3101	Principles of Risk Managemen	t.
	and Insurance	3
INS 3102	Insurance Law	3
INS 3201	Property Insurance	3
INS 3202	Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
INS 4104	Reinsurance	3
INS 4203	Marine and Aviation Insurance	3
INS 4206	Essentials of Risk Managemen	t 3
INS 4302	Accident, Group and	
	Health Insurance	3
INS 4303	Life Assurance Underwriting	3

Concentration Courses

Students must choose one of the three for	llowing
plans as their concentration courses.	
Plan A: Major Concentration Courses	15 Credits
Or Plan B: Business Concentration	
Courses	15 Credits
Or Plan C: Major Elective Courses	15 Credits
	and the second se

PLAN A – Major Concentration Courses 15 Credits

Students pursuing PLAN A must select one of the following concentration in the major area and study the five specified courses.

Property and Casualty Insurance

INS 3203	Engineering Insurance	
INS 4103	Insurance Marketing	
INS 4204	Property and Casualty Insurance	
	Accounting and Finance	
INS 4205	Survey and Claim Management in	
	Property and Casualty Insurance	
INS 4207	Insurance Management	

Life Assurance

INS 4304	Life Assurance Mathematics
INS 4305	Claim Management in
	Life Assurance
INS 4306	Life Assurance and Financial
	Planning
INS 4307	Life Assurance Agency
	Administration
INS 4308	Managing for Solvency and
	Profitability in Life Assurance

PLAN B – Business Concentration Courses

15 Credits

Students pursuing PLAN B must select a concentration in other business areas and study the five specified courses.

Accounting

.

ACT 3602	Intermediate Accounting I	3
ACT 3603	Intermediate Accounting II	3
ACT 3614	Taxation I	3
ACT 3622	Cost Accounting	3
ACT 3629	Profits Planning and Control	3

Business Information System

BIS 3315	Programming and Algorithms	3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4675	Information Systems Project	
	Management	3

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3

Hospitality and Tourism Management

and and and and the bas has had been been been and and and		
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3
Internation	al Business Management	
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3

Global Marketing

3

MKT 3620

3 3

333

3

Industrial Management

IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	101
IDM 4201	Manufacturing Planning and Control	(1)
IDM 4203	Quality Management	111
IDM 4206	Industrial Environmental	
	Management	3

Management

MGT 3915	Project Management	3
MGT 3917	Innovation and Change Management	3
MGT 3922	Introduction to New Ventures	3
MGT 4910	Productivity and Quality Management	3
MGT 4916	Negotiation Strategy	3

Marketing

Mł	(T 3525	Sales Management	3
Mł	(T 3530	Consumer Behavior	3
Mł	(T 4725	Competitive Analysis and Strategy	3
Mł	(T 4730	Marketing Management	3
Mł	(T 4809	Marketing for Services	3

Real Estate

REM 3111	Principles of Real Estate
REM 3112	Real Estate Law
REM 3113	Real Estate Economics
REM 3114	Building Design and Construction
	Techniques
REM 3211	Principles of Real Estate
	Development

PLAN C – Major Elective Courses

Students pursuing PLAN C must select any five major elective courses.

INS 3203	Engineering Insurance	3
INS 4103	Insurance Marketing	3
INS 4105	Seminar in Insurance	3
INS 4106	Information Management	
	in Insurance	3
INS 4204	Property and Casualty Insurance	
	Accounting and Finance	3
INS 4205	Survey and Claim Management in	
	Property and Casualty Insurance	3
INS 4207	Insurance Management	3
INS 4208	Internship in Property and Casualty	
	Insurance (240 Hours)	3
INS 4209	Directed Studies in Property &	
	Casualty Insurance	3
INS 4210	Risk Control and Risk Financing	3
INS 4304	Life Assurance Mathematics	3
INS 4305	Claim Management in Life	
	Assurance	3
INS 4306	Life Assurance and Financial	
	Planning	3
INS 4307	Life Assurance Agency	
	Administration	3
INS 4308	Managing for Solvency and	
	Profitability in Life Assurance	3
INS 4309	Internship in Life	
	Assurance (240 Hours)	3
INS 4310	Directed Studies in Life Assurance	3
BIS 3587	Principles of Electronic Commerce	3
FIN 3724	Financial Feasibility Planning	3
FIN 3725	Managerial Economics	3
C Eroo Electi	No Courses O Cred	itc

C. Free Elective Courses

9 Credits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

First and Second Year (Freshmen and Sophomore)

During the freshmen year, all students in Martin de Tours School of Management and Economics pursue the same study plan consisting of general education courses and business core courses, which provide them with the basic knowledge on all the disciplines in business. The study plan also prepares the students with adequate knowledge to select a concentration that suits his/her ability, background, and career preferences.

Third and Fourth Year (Junior and Senior) During the junior and senior years, students who select the Insurance Major follow the Insurance program of studies:

- 1. Ten Major Required Courses
- 2. Five Concentration Courses Plan A: Major Concentration Courses Or Plan B: Business Concentration Courses Or Plan C: Major Elective Courses
- 3. Three Free Elective Courses

FIRST YEAR

First Semester

Course Code	Course Title Co	redits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
BG 1400	Business Law I	3
GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skill	s
	(For international students)	3
	Total	19

Second Semester

Course Cod	e Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1401	Business Law II	3
BG 2200	Statistics II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
MGT 1101	Introduction to Business	3
	Total	18

SECOND YEAR First Semester

ISL	Sell	lester	

Course Code	e Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 2180	Information Technology	3
MGT 2404	Managerial Psychology	3
MGT 2900	Principles of Management	3
	Total	18

Course Code	Course Title	Credits
BG 2001	English IV	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2101	World Civilization	3
GE 2202	Ethics	3
IBM 2702	International Business Environmen	nt 3
MKT 2280	Principles of Marketing	3
	Total	18



THIRD YEAR First Semester

Course Code	Course Title	Credits
BIS 3340	Computer Tools in Research	0
FIN 3701 INS 3101	Corporate Finance Principles of Risk Management	3
	and Insurance	3
INS 3102	Insurance Law	3
MGT 3905	Operations Management	3
	One Free Elective Course	3
	One Free Elective Course	3
	Total	18

Second Semester

Course Code	Course Title	Credits
INS 3201 INS 3202	Property Insurance Casualty Insurance	3
INS 3301	Principles of Life Assurance	3
MGT 3907 MGT 3940	Business Communication Business Research Methodology	3
	One Plan A / Plan B / Plan C Course	3
	Total	18

FOURTH YEAR

First Semester

Course Cod	e Course Title	Credits
INS 4203 INS 4302	Marine and Aviation Insurance Accident, Group and	3
110 1002	Health Insurance	3
INS 4303	Life Assurance Underwriting	3
MGT 4914	Entrepreneurship	3
	One Plan A / Plan B /	
	Plan C Course	3
	One Plan A / Plan B /	
	Plan C Course	3
	Total	18

Course Code	Course Title	Credits
INS 4206	Essential of Risk Management Reinsurance	3
	One Plan A / Plan B / Plan C Course	3
	One Plan A / Plan B / Plan C Course	2
	One Free Elective Course	3
	Total	15



DEPARTMENT OFBUSINESS ECONOMICS

Degree Conferred:

Bachelor of Economics (Business Economics) B.Econ. (Business Economics)

Program Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Morally sound, committed to acting justly and open to further growth.
- Have essential concepts, frameworks, core body of knowledge and necessary technical skills to work as a component professional in Economics and management
- Able to understand and apply economic reasoning to every aspect of work and life
- Able to interpret economic information, make economic analysis and forecasting useful for business decision making.
- Flexible, competent and well-rounded in confronting and solving economic problems.
- Able to work as a team and motivate others to work.
- Able to communicate effectively and have good IT skills.



Assumption University of Thailand | Department of Business Economics

A. General E Language Co	ducation Courses purses	36 Credits 15 Credits
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403	English I English II English III English IV Communication in Thai	3 3 3 3 3
or GE 1401	Language and Communicatior (For international students)	n Skills
Social Science	ce Courses	6 Credits
GE 2202 MGT 1101	Ethics Introduction to Business	3 3
Humanities (Courses	9 Credits
GE 2101 GE 2103 MGT 2404	World Civilization Art of Reasoning Managerial Psychology	3 3 3
Science and	Mathematics Courses	6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3 3
B. Specialized Business Cor		99 Credits 42 Credits
	e Courses Fundamentals of Financial Accounting	
Business Cor	e Courses Fundamentals of Financial	42 Credits
Business Cor ACT 1600	e Courses Fundamentals of Financial Accounting Fundamentals of	42 Credits 3
ACT 1600	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting	42 Credits 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II	42 Credits 3 3 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application	42 Credits 3 3 3 3 3 3 5 0
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology	42 Credits 3 3 3 3 3 3 5 0 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research	42 Credits 3 3 3 3 3 5 0 3 0 0
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning	42 Credits 3 3 3 3 3 3 5 0 3 0 3 0 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics	42 Credits 3 3 3 3 3 3 3 5 0 3 0 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics	42 Credits 3 3 3 3 3 5 0 3 0 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Governi	42 Credits 3 3 3 3 5 0 3 0 3 3 3 3 3 ment 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Governin Corporate Finance	42 Credits 3 3 3 3 5 0 3 0 3 3 0 3 3 3 ment 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701 MGT 2900	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Govern Corporate Finance Principles of Management	42 Credits 3 3 3 3 5 0 3 3 3 ment 3 3 3 3 3 3 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Governin Corporate Finance	42 Credits 3 3 3 3 5 0 3 3 3 ment 3 3 3 3 3 3 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701 MGT 2900 MGT 3940	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Govern Corporate Finance Principles of Management Business Research Methodolog Principles of Marketing	42 Credits 3 3 3 3 3 5 0 3 3 3 ment 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701 MGT 2900 MGT 3940 MKT 2280	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Govern Corporate Finance Principles of Management Business Research Methodolog Principles of Marketing	42 Credits 3 3 3 3 3 5 0 3 3 3 3 ment 3 3 3 3 3 3 3 3 3 3 3 3 3
Business Cor ACT 1600 ACT 2620 BG 1201 BG 1230 BG 2200 BIS 1141 BIS 2180 BIS 3340 ECO 1401 ECO 2501 ECO 2502 ECO 2503 FIN 3701 MGT 2900 MGT 3940 MKT 2280	e Courses Fundamentals of Financial Accounting Fundamentals of Managerial Accounting Statistics I Calculus Statistics II Business Software Application Information Technology Computer Tools in Research Economic Reasoning Principles of Microeconomics Principles of Macroeconomics Economy, Society and Governe Corporate Finance Principles of Management Business Research Methodolog Principles of Marketing red Courses	42 Credits 3 3 3 3 3 3 3 3 3 3 3 3 3

ECO 3714	Mathematical Economics	3
ECO 3715	Introduction to Econometrics	3
ECO 3716	International Trade	3
ECO 3717	Managerial Economics	3
ECO 4711	International Macroeconomic	
ECO 4712	Economics of Strategy	3
ECO 4911	Seminar in Economics	3
Major Electi	ve Courses	12 Credits
	st choose any FOUR major electu	ive courses.
		-
ECO 3721	Industrial Organization	3
ECO 3722	Business Cycle and Forecastine	
ECO 3723	Public Finance	3
ECO 3724	Comparative Economic Syster	
ECO 3725	Financial Economics	3 3
ECO 4721	Project Evaluation	3
ECO 4722	Economics of Human Resourc	es 3
ECO 4723	Agriculture Economics and	
	Agri-business	3
ECO 4724	Economics of E-business	3
ECO 4725	Economics of Sustainability	3 3 3 3
ECO 4726	Business and Government	3
REM 3113	Real Estate Economics	3
Business Co	ncentration Courses	15 Credits

Student must choose ONE of the following groups of concentration as their business concentration:

Finance and Banking

FIN 3711	Investment	3
FIN 3712	Money and Capital Markets	3
FIN 3713	Business Analysis and Valuation	3
FIN 4813	Financial Management	3
FIN 4815	Bank Management	3

Hospitality and Tourism Management

HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing for Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

International Business Management

IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3

Industrial

IDM 3203	Logistics and Supply Chain	
	Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental Management	3

Insurance

INS 3101	Principles of Risk Management
	and Insurance
INS 3201	Property Insurance
INS 3202	Casualty Insurance
INS 3301	Principles of Life Assurance
INS 4206	Essentials of Risk Management

Management

MGT 3915	Project Management	
MGT 3917	Innovation and Change Management	
MGT 3922	Introduction to New Ventures	
MGT 4910	Productivity and Quality Management	
MGT 4916	Negotiation Strategy	

Marketing

MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 4725	Competitive Analysis and Strategy	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
Real Estate		
REM 3111	Principles of Real Estate	3
REM 3114	Building Design and Construction	
	Techniques	3
REM 3211	Principles of Real Estate Development	3
REM 3212	Real Estate Finance	3
REM 3213	Real Estate Appraisal	3
C. Free Electi	ves Courses 9 Cre	dits

Students can take free elective courses of 9 credits from any faculty in Assumption University upon completion of the prerequisites (if any)



Assumption University of Thailand | Department of Business Economics

STUDY PLAN STUDY PLAN

First and Second Years (Freshmen and Sophomore)

During the freshmen year, all students in Business Economics pursue the same study plan consisting of general education courses and business core courses, which provides them with the basic knowledge on all the disciplines in Economics and Business. The study plan also prepares the students with adequate knowledge to select a business concentration that suits his/her ability, background, and preferences.

Third and Fourth Years (Junior and Senior) During the junior and senior years, Business Economics students follow the Economics program of studies:

- 1. Ten Major Required Courses
- 2. Four Major Electives Courses
- 3. Five Business Concentration Courses
- 4. Three Free Elective Courses

FIRST YEAR

First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
BG 1201	Statistics I	3
ECO 1401	Economic Reasoning	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication S	kills
	(For international students)	3
GE 2103	Art of Reasoning	3
	Total	18



SECOND YEAR First Semester

Course Code	Course Title	Credits
ACT 2620	Fundamentals of Managerial	
	Accounting	3
BG 2000	English III	3
GE 1301	Environmental Science	3
BIS 2180	Information Technology	3
ECO 2502	Principles of Macroeconomics	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester

Course Code	Course Title	Credits
ACT 1600	Fundamentals of Financial	
	Accounting	3
BG 1002	English II	3
BG 1230	Calculus	3
BG 2200	Statistics II	3
BIS 1141	Business Software Applications	0
ECO 2501	Principles of Microeconomics	3
MGT 1101	Introduction to Business	3
	Total	18

Course Code	Course Title C	redits
BG 2001	English IV	3
BIS 3340	Computer Tools in Research	0
ECO 2503	Economy, Society, and Governmen	t 3
ECO 3711	Intermediate Microeconomics	3
ECO 3713	Economics of Money and Banking	3
GE 2202	Ethics	3
MGT 2900	Principles of Management	3
	Total	18



THIRD YEAR First Semester

Course Code	Course Title	Credits
ECO 3712	Intermediate Macroeconomics	3
ECO 3714 FIN 3701	Mathematical Economics Corporate Finance	3
GE 2101	World Civilization	3
MGT 3940	Business Research Methodology	3
	One Major Elective Course	3
	Total	18

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
ECO 4711	International Macroeconomics	3
ECO 4712	Economics of Strategy	3
	Two Business Concentration Course	s 6
	Two Major Elective Courses	6
	Total	18

Second Semester

Course Code	Course Title	Credits
ECO 3715 ECO 3716 ECO 3717 MGT 2404	Introduction to Econometrics International Trade Managerial Economics Managerial Psychology Two Business Concentration Courses	3 3 3 3 5 6
	Total	18

Course Code	Course Title	Credits
ECO 4911	Seminar in Economics	3
	One Business Concentration Course	3
	One Major Elective Course	3
	Three Free Elective Courses	9
	Total	18




SCHOOL OF ARTS

Curriculum Structure	in the second				112.315
Courses	Business	Business	Business	Business	Chinese for
	English	French	Chinese	Japanese	Economy
					and Trade
A. General Education Courses	43	40	37	40	30
- Language Courses	15	15	15	15	15
- Social Science Courses	16	13	13	13	9
- Humanities Courses	6	б	3	6	3
- Science and Mathematics Courses	6	6	6	6	3
B. Specialized Courses	93	96	99	96	99
- Required Core Courses	21	33	21	30	
- Core Courses	÷	-	-		63
- Elective Core Courses	9	-	-	-	-
- Major Required Course	36	36	45	39	30
- Major Elective Courses	9	9	15	9	6
- Minor Courses	18	18	18	18	-
C. Free Elective Courses	6	6	6	6	6
Total Credits	142	142	142	142	135

GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Arts upon students who meet all of the following requirement:

Have completed the total number of credits of the curriculum

• Have obtained a cumulative grade point average of at least 2.00

Have participated in 16 sessions of the Professional Ethics Seminar

Have obtained library and financial clearance from the University

Have demonstrated good behavior and discipline

DEPARTMENT OF BUSINESS ENGLISH

OBJECTIVES

- To produce graduates who have the characteristics, knowledge and skills as follows
- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have English proficiency necessary for business executions and be well-rounded in terms of intercultural communication.
- Demonstrate skills and expertise in applying knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use computer and other technologies in communicating and presenting information.

COURSES

A. General E Language C	ducation Courses ourses	43 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401 Language and Communicat		on Skills
	(For international students)	3
Social Scien	ce Courses	16 Credits
BG 2400	Macroeconomics	3
BG 2400	Microeconomics	3
GE 1201	Information Literacy Skills	1
GE 1201	Society, Politics and Econom	
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Humanities	Courses	6 Credits
GE 1101	Thai Civilization	3
GE 2101	World Civilization	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3

		93 Credits
Required Co	ore Courses	21 Credits
BG 1301	Fundamentals of Statistics	3
BIS 1141	Business Software Applications	0
BIS 2180	Information Technology	3
GE 2103	Art of Reasoning	3
GL 1101	Elements of Spoken Language	3
GL 3102	Introduction to Linguistics	3
GL 3103	Language, Culture, and Behavior	3
MGT 1101	Introduction to Business	3
Elective Cor	e Courses	9 Credits
ACT 1601	Fundamentals of	
	Financial Accounting	3
FIN 2700	Money, Banking and	
	Financial Markets	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
Major Requi	red Courses	36 Credits
EN 2230	Listening and Speaking	3
EN 3210	Business Communication	
	in English I	3
EN 3211	Business Communication	
	in English II	3
EN 3240	Reading in Business English	3
EN 3270	Translation: English - Thai	3
or EN 4254	Academic Writing	
	(Only for international students	s) 3
EN 3271	Translation: Thai - English	3
or EN 4252	Article Writing	
	(Only for international students	s) 3
EN 4232	Business Conversation	3
EN 4233	Public Speaking in English	3
EN 4240	Reading in English Newspapers	5 3
EN 4241	Critical and Analytical Reading	3
EN 4250	Understanding, Note-taking	
	and Summarizing	3
EN 4256	Introduction to Business	
	Research Writing	3



Major Electi	ve Courses	9 Credits
EN 3232	English Pronunciation I	3
EN 3233	English Pronunciation II	3
EN 3281	English for Tourism	3
EN 3282	English for Hotels	3
EN 3283	English for International Trade	3
EN 3284	English for Property Developm	ent 3
EN 3287	English for Office Management	t 3
EN 3288	English for Airline Business	3
EN 3289	English for Music Business	3
EN 4252	Article Writing	3
EN 4253	Introduction to Public Relations W	riting 3
EN 4254	Academic Writing	3
EN 4262	Reading of Modern Viewpoints	; 3
EN 4266	Reading Thai Literary	
	Works in English	3
EN 4267	Aspects of American Culture	3
EN 4272	Translation in Business English	3
EN 4291	Seminar in Business English	3
Minor Cours	0753	18 Credits
Business Ch		10 C
Minor Requi	red Courses	12 Credits
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
CN 2402	Chinese III	3
Minor Electi	ve Courses	6 Credits
Students ca	In take any courses from the	- Department
of Busines		
prerequisite	s (if any).	
Business Fre	nch	
Minor Requi		12 Credits
 FR 1500	Introduction to French	- 3
FR 1500	French I	3
FR 2501	French II	3
FR 2502	French III	3
1112302	, teneti m	5

Minor Elective Courses 6 Credits

Students can take any courses from the Department of Business French upon completion of the prerequisites (if any).

JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3

Students can take any courses from the Department of Business Japanese upon completion of the prerequisites (if any).

Thai (Only for international students)

Minor Requ	ired Courses	18 Credits
TH 1500 TH 1501 TH 2501 TH 2502 TH 3501 TH 3502	Introduction to Thai Thai Language I Thai Language II Thai Language III Advanced Reading Advanced Thai Writing	3 3 3 3 3 3 3
	formation Systems ired Courses	18 Credits
BIS 3315	Programming and Algorithms	3
BIS 3349 BIS 3635	Fundamentals of Computer Graphics Database Systems	3
BIS 3655	Data Communications and Networking	3
BIS 3666	Information Systems Analysis and Design	3
BIS 4675	Information Systems Project Management	3
Finance and Minor Requ	l Banking ired Courses	18 Credits
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813	Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management	3 3 3 3 3 3 3



Hospitality and Tourism Management Minor Required Courses		redits
HTM 3001	Sustainable Tourism	3
HTM 3101	Introduction to Hospitality	
	Management	3
HTM 3102	Introduction to Tourism	
	Management	3
HTM 3103	Consumer Behavior in Hospitality	
	and Tourism Industry	3
HTM 3205	Marketing in Hospitality and Tourism	3
HTM 3211	Food and Beverage Management	3

International Business Management

Minor Required Courses	18 Credits
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IBM 2702	International Business Environment	3
IBM 3711	Comparative Management	3
IBM 3713	International Management	3
IBM 3714	Export-Import Policy and Strategy	3
IBM 4811	International Strategic Management	3
MKT 3620	Global Marketing	3

Industrial Management

	ired Courses 18	Credits
IDM 3203	Logistics and Supply	
	Chain Management	3
IDM 3204	Industrial Safety and Risk	
	Management	3
IDM 4201	Manufacturing Planning and Cont	rol 3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental	
	Management	3
MGT 3905	Operations Management	3
Manageme	nt	
Minor Requ	ired Courses 18	Credits

MGT 3901	Organization Theory	3
MGT 3903	Leadership	3
MGT 3917	Innovation and Change Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3
Marketing		
Minor Requ	ired Courses 18 Cr	edits
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3525	Sales Management	3

MKT 3525 Sales Management

MKT 3530	Consumer Behavior	3
MKT 3837	Service and Customer	
	Relationship Management	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
Music Busin	ness	
Minor Requ	iired Courses	18 Credits
MA 1300	Introduction to Applied Music	1
MA 1301	Applied Music I	2
MB 2421	Music Production Technology	3
MB 2521	Music Business I	3
MB 2522	Music Business II	3
MB 3512	Legal Aspects of Music Busines	s 3
MB 4511	Music Business	
	Artist/Project Management	3
Real Estate	Management	
Minor Requ	ired Courses	18 Credits
REM 3111	Principles of Real Estate	3
REM 3112	Real Estate Law	3
REM 3113	Real Estate Economics	3
REM 3114	Building Design and	
	Construction Techiques	3
REM 3211	Principles of Real Estate	
	Development	3
REM 4113	Principles of Property Manager	nent 3
C. Free Elect	tive Courses	6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Free elective courses which are offered by Faculty of Arts:

GS 1302	Contemporary Science	
	and Sustainability	3
GS 2103	Thai Buddhism	3
GS 2104	Contextual Religions	3
GS 2106	Logical Thinking and Application	3
GS 2205	Communication and Cultures	3
GS 2206	Personality Development	3
GS 2207	Sports, Health and Wellness	
	Development	3
GS 2208	Thai Politics	3
GS3101	Applied Philosophy in	
	Contemporary Society	3
GS 3401	Public Speaking in Thai	3



STUDY PLAN

FIRST YEAR First Semest	er		
Code	Subjects	Credits	
BG 1001	English I	3	
GE 1101	Thai Civilization	3	
GE 1201	Information Literacy Skills	1	
GE 1301	Environmental Science	3	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communication	Skills	
	(For international students)		3
MA 1200	Mathematics for Business	3	
	Total	16	

SECOND YEAR

First Semester

Code	Subjects	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
BIS 1141	Business Software Applications	0
GE 2101	World Civilization	3
GE 2103	Art of Reasoning	3
MGT 2404	Managerial Psychology	3
	One Elective Core Course	3
	Total	18

Second Semester

Code	Subjects	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
BG 2401	Microeconomics	3
GE 1203	Society, Politics and Economics	3
GL 1101	Elements of Spoken Language	3
MGT 1101	Introduction to Business	3
	Total	18

Code	Subjects	Credits
BG 2001	English IV	3
BIS 2180	Information Technology	3
EN 2230	Listening and Speaking	3
GE 2202	Ethics	3
	Two Elective Core Courses	6
	Total	18



THIRD YEAR

First Semester

Code	Subjects	Credits
EN 3210	Business Communication	
	in English I	3
EN 3240	Reading in Business English	3
EN 3270	Translation: English-Thai	3
or EN 4254	Academic Writing -	
	(only for international students)	3
GL 3102	Introduction to Linguistics	3
	Two Minor Courses	6
	Total	18

FOURTH YEAR First Semester

Code	Subjects	Credits
EN 4240 EN 4250	Reading in English Newspapers Understanding, Note-taking	3
	and Summarizing	3
	One Major Elective Course	3
	Two Minor Courses	6
	One Free Elective Course	3
	Total	18

Second Semester

Code	Subjects	Credits
EN 3211	Business Communication	
	in English II	3
EN 3271	Translation: Thai-English	3
or EN 4252	Article Writing -	
	(only for international students)	3
EN 4232	Business Conversation	3
GL 3103	Language, Culture and Behavior	3
	One Major Elective Course	3
	One Minor Course	3
	Total	18

Code	Subjects	Credits
EN 4233	Public Speaking in English	3
EN 4241	Critical and Analytical Reading	3
EN 4256	Introduction to Business	
	Research Writing	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18



DEPARTMENT OF BUSINESS FRENCH

OBJECTIVES

- To produce graduates who have the characteristics, knowledge and skills as follows:
- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have up-to-date and business language skills both in French and in English for listening, speaking, reading and writing through technologies.
- Demonstrate skills and expertise in applying the knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use computer and other technologies in communicating and presenting information.



COURSES

		-
A.General E	ducation Courses	40 Credits
Language C	ourses	15 Credits
		-
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	Skills
	(For foreign students)	3
Social Scien	ce Courses	13 Credits
BG 2400	Macroeconomics	- 3
BG 2400	Microeconomics	3
GE 1201	Information Literacy Skills	1
or GE 1201		1
	Physical Education	
GE 2202	Ethics Management Development	3
MGT 2404	Managerial Psychology	3
Humanities	Courses	6 Credits
GE 1101	Thai Civilization	3
GE 2101	World Civilization	3
Celoneo ano	MathematicsCourses	6 Credits
Science and	i MathematicsCourses	o creatis
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
B. Specializ	ed Courses:	96 Credits
Core Course	25	33 Credits
		-
ACT 1601	Fundamentals of	
	Financial Accounting	3
BG 1301	Fundamentals of Statistics	3
BIS 1141	Business Software Applications	s 0
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and	
	Financial Markets	3
GE 2103	Art of Reasoning	3
GL 1101	Elements of Spoken Language	
GL 3102	Introduction to Linguistics	3
GL 3102	Language, Culture and Behavio	
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MGT 2300 MKT 2280	Principles of Marketing	3
WINT 2200	i marketing	5



Major Requ	ired Courses 36 Cr	redits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3
FR 3503	Introduction to Business French	3
FR 3510	Business Communication in French	3
FR 3530	Oral Comprehension	
	and Expression	3
FR 3534	French Phonetics	3
FR 3570	Translation: French-Thai	3
or FR 3531	French Conversation and Discussion	i l
	(For foreign students)	3
FR 4504	Business French I	3
FR 4542	Reading French Magazines	
	and Newspapers	3
FR 4573	Aspects of French-Speaking	
	Countries	3
Major Electi	ive Courses 9 Cr	redits
FR 3511	Business Communication in French II	3
FR 3520	Introduction to French Linguistics	3
FR 3531	French Conversation and	
	Discussion I	3
FR 3535	Basic Conversation in	
	Business French I	3
FR 3536	Basic Writing in Business French I	3
FR 3541	French Reading and Oral Report	3
FR 3580	French for Secretaries	3
FR 3581	French for Tourism	3
FR 3582	French for Hotels	3
FR 4505	Business French II	3
FR 4532	French Conversation and	
ED 4522	Discussion II	3
FR 4533	Public Speaking in French	3
FR 4540 FR 4572	Reading in Business French Translation in Business French	3 3
FR 4572	Seminar	3
FR 4590	Selected Topics in French Studies	3
1114591	Selected topics in Hench Studies	2
Minor Cours Business Ch		redits
		redits
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
CN 2402	Chinese III	3

Minor Elec	tive Courses 60	creu	
Students of Busine prerequisit	the second	oartr of	nen the
Business Ei Minor Requ		Cred	its
EN 2230	Listening and Speaking		3
EN 3210	Business Communication		_
EN 4333	in English I Business Conversation		3
EN 4232 EN 4233	Public Speaking in English		3 3
Minor Elec	tive Courses 60	Cred	its
	can take any course from the Dep ess English upon completion es (if any).		
Business Ja Minor Req		Cred	its
Minor Req		Cred	its 3
Minor Req JA 1700 JA 1701	Introduction to Japanese Japanese I	Cred	3 3
Minor Req JA 1700 JA 1701 JA 2701	Introduction to Japanese Japanese I Japanese I	Cred	3 3 3
Minor Req JA 1700 JA 1701 JA 2701	Introduction to Japanese Japanese I	Cred	3 3
Minor Req JA 1700 JA 1701 JA 2701 JA 2702	Introduction to Japanese Japanese I Japanese II Japanese II	Cred Cred	3 3 3 3
Minor Requ JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 6 (can take any course from the Dep	Cred	3 3 3 its
Minor Requ JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 6 (can take any course from the Dep ess Japanese upon completion	Cred	3 3 3 its
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busine prerequisit	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 6 (can take any course from the Dep ess Japanese upon completion tes (if any).	Cred	3 3 3
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busine prerequisit Business Ir	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 6 can take any course from the Dep ess Japanese upon completion tes (if any).	Cred	3 3 3 its nen the
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busine prerequisit Business Ir	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any).	Cred partr of	3 3 3 its nen the
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any).	Cred partr of Cred	3 3 3 its nen th
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349 BIS 3635	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any). Information Systems uired Courses 180 Programming and Algorithms Fundamentals of Computer Graphic Database Systems	Cred partr of Cred	3 3 3 its nen th
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any). Information Systems uired Courses 180 Programming and Algorithms Fundamentals of Computer Graphic Database Systems Data Communications	Cred partr of Cred	3 3 3 its nen the 3 3 3
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349 BIS 3635 BIS 3655	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any). formation Systems uired Courses 180 Programming and Algorithms Fundamentals of Computer Graphic Database Systems Data Communications and Networking	Cred partr of Cred	3 3 3 its nen th
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349 BIS 3635	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any). formation Systems uired Courses 180 Programming and Algorithms Fundamentals of Computer Graphic Database Systems Data Communications and Networking Information Systems	Cred partr of Cred	3 3 3 its nen the 3 3 3
Minor Req JA 1700 JA 1701 JA 2701 JA 2702 Minor Elec Students of of Busines prerequisit Business Ir Minor Req BIS 3315 BIS 3349 BIS 3635 BIS 3655	Introduction to Japanese Japanese I Japanese II Japanese III tive Courses 60 can take any course from the Dep ess Japanese upon completion tes (if any). formation Systems uired Courses 180 Programming and Algorithms Fundamentals of Computer Graphic Database Systems Data Communications and Networking	Cred partr of Cred	3 3 3 its nen the 3 3 3 3



Finance and Minor Requ	d Banking iired Courses	18 Cre	dits
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813	Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management		3 3 3 3 3 3 3 3
	and Tourism Management iired Courses	18 Cre	dits
HTM 3001	Sustainable Tourism		3
HTM 3101	Introduction to Hospitality		2
HTM 3102	Management Introduction to Tourism		3
	Management		3
HTM 3103	Consumer Behavior in Hospita and Tourism Industry	ality	3
HTM 3205	Marketing in Hospitality and To	urism	3
HTM 3211	Food and Beverage Managem		3
	al Business Management iired Courses	18 Cre	dits
IBM 2702	International Business		
0110711	Environment		3
IBM 3711 IBM 3713	Comparative Management International Management		3 3
IBM 3713	Export-Import Policy and Stra	teav	3
IBM 4811	International Strategic	(29)	5
	Management		3
MKT 3620	Global Marketing		3
	1anagement Iired Courses	18 Cre	dits
IDM 3203	Logistics and Supply		
	Chain Management		3
IDM 3204	Industrial Safety and Risk		-
IDM 4201	Management Manufacturing Planning		3
IDM 4201	and Control		3
IDM 4203	Quality Management		3
IDM 4206	Industrial Environmental		
	Management		3
MGT 3905	Operations Management		3

Minor Requ	iired Courses	18 Credits
MGT 3901	Organization Theory	3
MGT 3903	Leadership	3
MGT 3917	Innovation and Change	
	Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3942	Organizational Behavior	3 3 3
MGT 4916	Negotiation Strategy	3
Marketing		
Marketing		
	ired Courses	18 Credits
	ired Courses Integrated Marketing	18 Credits
Minor Requ		3
Minor Requ	Integrated Marketing	3
Minor Requ MKT 3102	Integrated Marketing Communications	
Minor Requ MKT 3102 MKT 3525	Integrated Marketing Communications Sales Management	3
Minor Requ MKT 3102 MKT 3525 MKT 3530	Integrated Marketing Communications Sales Management Consumer Behavior	3
Minor Requ MKT 3102 MKT 3525 MKT 3530	Integrated Marketing Communications Sales Management Consumer Behavior Service and Customer	 3 3 3
Minor Requ MKT 3102 MKT 3525 MKT 3530 MKT 3837	Integrated Marketing Communications Sales Management Consumer Behavior Service and Customer Relationship Management	 3 3 3

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

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FIRST YEAR	

First Semester

Subjects	Credits
English I	3
Mathematics for Business	3
Introduction to French	3
Thai Civilization	3
Information Literacy Skills	1
Physical Education	1
Environmental Science	3
Communication in Thai	3
Language and Communication Ski	lls
(For foreign students)	3
Total	19
	English I Mathematics for Business Introduction to French Thai Civilization Information Literacy Skills Physical Education Environmental Science Communication in Thai Language and Communication Ski (For foreign students)

SECOND YEAR First Semester

Code	Subjects	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
FR 2501	French II	3
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester

Code	Subjects	Credits
ACT 1601	Fundamentals of	
	Financial Accounting	3
BG 1002	English II	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
FR 1501	French I	3
GL 1101	Elements of Spoken Language	3
MGT 1101	Introduction to Business	3
	Total	18

Code	Subjects	Credits
BG 2001	English IV	3
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and	
	Financial Markets	3
FR 2502	French III	3
GE 2103	Art of Reasoning	3
MGT 2900	Principles of Management	3
	Total	18



THIRD YEAR First Semester

Code	Subjects	Credits
BG 1301	Fundamentals of Statistics	3
FR 3503	Introduction to Business French	3
FR 3510	Business Communication	
	in French I	3
FR 3530	Oral Comprehension and	
	Expression	3
GL 3102	Introduction to Linguistics	3
	One Minor Course	3
	Total	18

Second Semester

Code	Subjects	Credits
FR 3534	French Phonetics	3
FR 3570	Translation : French-Thai	3
or FR 3531	French Conversation and Discuss	ion I
	(For foreign students)	3
GL 3103	Language, Culture and Behavior	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18

FOURTH YEAR First Semester

Code	Subjects	Credits
GE 2101	World Civilization	3
FR 4542	Reading French Magazines	
	and Newspapers	3
FR 4573	Aspects of French-Speaking	
	Countries	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18

Code	Subjects	Credits
FR 4504	Business French I	3
	One Major Elective Course	3
	Three Minor Courses	9
	Total	15



DEPARTMENT OF BUSINESS CHINESE

OBJECTIVES

- To produce graduates who have the characteristics, knowledge and skills as follows:
- Have personal integrity, open mind and sense of self and social responsibility.
- Have Chinese and English proficiency for business purposes.
- Have analytical and critical skills and able to apply knowledge to real practice.
- Able to work and communicate with both Thai and international people with respect and courtesy
- Have computer and information technology skills.



COURSES

<mark>A. General Ed</mark> Language Co	lucation Courses ourses	37 Credits 15 Credits
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403 or GE 1401	English I English II English III English IV Communication in Thai Language and Communicatio (For international students)	3 3 3 3 0 Skills 3
Social Scienc	e Courses	13 Credits
BG 2400 BG 2401 GE 1201 or GE 1204 GE 2202 MGT 2404	Macroeconomics Microeconomics Information Literacy Skills Physical Education Ethics Managerial Psychology	3 3 1 1 3 3
Humanities (Courses	3 Credits
GE 1101	Thai Civilization	3
Science and	Mathematics Courses	6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3 3
B. Specialized Core Courses		99 Credits 21 Credits
ACT 1601 BG1301 BIS 1141 BIS 2180 GL 1101 MGT 1101 MGT2900 MKT2280	Fundamentals of Financial Accounting Fundamentals of Statistics Business Software Applicatio Information Technology Elements of Spoken Languag Introduction to Business Principles of Management Principles of Marketing	3



Major Required Courses 4		5 Credits
CN 1400	Introduction to Chinese	- 3
CN 1401	Chinese I	3
CN 1430	Listening and Speaking	
	in Chinese I	1
CN 1431	Listening and Speaking	
	in Chinese II	1
CN 2401	Chinese II	3
CN 2402	Chinese III	3
CN 2431	Chinese Oral Comprehension	
	and Expression I	2
CN 2432	Chinese Oral Comprehension	
	and Expression II	2
CN 3403	Chinese IV	3
CN 3410	Business Communication	
	in Chinese	3
CN 3434	Chinese Conversation	
	and Discussion I	3
CN 3435	Chinese Conversation	
	and Discussion II	3
CN 3450	Introduction to Chinese Writin	5
CN 3462	Introduction to Chinese Cultur	
CN 3470	Translation I: Chinese-Thai	3
or CN 3441	Chinese Reading and Oral Rep	
	(only for international student	
CN 4442	Reading in Chinese Newspape	
CN 4471	Translation II: Thai-Chinese	3
or CN 4440	Reading in Business Chinese	
	(only for international student	s) 3
Major Electiv	re Courses	15 Credits

CN 3433	Chinese from Audio-Visual Media
CN 3441	Chinese Reading and Oral Report
CN 3480	Chinese for Secretaries
CN 3481	Chinese for Tourism
CN 3482	Chinese for Hotels
CN 3483	Chinese for Service Industries
CN 4433	Public Speaking in Chinese
CN 4434	Advanced Listening
	and Speaking in Chinese I
CN 4435	Advanced Listening and
	Speaking in Chinese II
CN 4440	Reading in Business Chinese
CN 4460	Survey of Chinese Literature
CN 4491	Seminar on Selected Topics

Minor Cour		18 Credits
Business Er Minor Requ	uired Courses	12 Credits
EN 2230	Listening and Speaking	3
EN 3210	Business Communication	
	in English I	3
EN 4232	Business Conversation	3
EN 4233	Public Speaking in English	3

Minor Elective Courses

6 Credits

Students can take any course from the Department of Business English upon completion of the prerequisites (if any).

Business French

Minor Required Courses		12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3
Minor Elec	tive Courses	6 Credits

Minor Elective Courses

Students can take any course from the Department of Business French upon completion of the prerequisites (if any).

Business Japanese

Minor Required Courses		12 Credits
JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3
Minor Elec	tive Courses	6 Credits

Students can take any course from the Department of Business Japanese upon completion of the prerequisites (if any).

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3 3 3



	rmation Systems	18 Credits	
Minor Require			
BIS 3315	Programming and Algorithm:	s 3	
BIS 3349	Fundamentals of Computer Gra	phics 3	
BIS 3635	Database Systems	. 3	
BIS 3655	Data Communications and		
	Networking	3	
BIS 3666	Information Systems		
	Analysis and Design	3	
BIS 4675	Information Systems		
	Project Management	3	
Finance and E	Banking		
Minor Require		18 Credits	
FIN 3701	Corporate Finance	3	
FIN 3711	Investment	3	
FIN 3712	Money and Capital Markets	3	
FIN 3714	Business Condition Analysis	3	
FIN 4812	International Finance	3	
FIN 4813	Financial Management	3	
Hospitality an	nd Tourism Management		
Minor Require	5	18 Credits	
HTM 3001	Sustainable Tourism	3	
HTM 3101	Introduction to Hospitality		
	Management	3	
HTM 3102	Introduction to Tourism Manage	ement 3	
HTM 3103	Consumer Behavior in Hospit	ality	
	and Tourism Industry	3	
HTM 3205	Marketing in Hospitality and		
	Tourism	3	
HTM 3211	Food and Beverage Managen	nent 3	
International	Business Management		
Minor Require		18 Credits	
IBM 2702	International Business Environ	ment 3	
IBM 3711	Comparative Management	3	
IBM3713	International Management	3	
IBM3714	Export-Import Policy and Stra	ategy 3	
IBM4811	International Strategic Manage	ement 3	
MKT3620	Global Marketing	3	
Industrial Mai	nagement		
Minor Require		18 Credits	
IDM 3203	Logistics and Supply		
	Chain Management	3	
IDM 3204	Industrial Safety and Risk		
	Management	3	

IDM 4201 IDM 4203	Manufacturing Planning and C Quality Management	Iontrol	3 3
IDM 4206	Industrial Environmental		5
1200	Management		3
MGT 3905	Operations Management		3
Managemer	ıt		
Minor Requi	red Courses	18 Cred	its
MGT 3901	Organization Theory		3
MGT 3903	Leadership		3
MGT 3917	Innovation and Change		
	Management		3
MGT 3923	Strategic Human Resources		
	Management		3
MGT 3942	Organizational Behavior		3
MGT 4916	Negotiation Strategy		3
Marketing			
Minor Requi	red Courses	18 Cred	its
MKT 3102	Integrated Marketing		
	Communications		3
MKT 3525	Sales Management		3
MKT 3530	Consumer Behavior		3
MKT 3837	Service and Customer		
	Relationship Management		3
MKT 4730	Marketing Management		3
MKT 4809	Marketing for Services		3
	lanagement		
Minor Requi	red Courses	18 Cred	its
REM 3111	Principles of Real Estate		3
REM 3112	Real Estate Law		3
REM 3113	Real Estate Economics		3
REM 3114	Building Design and		
	Construction Techiques		3
REM 3211	Principles of Real Estate		
	Development		3
REM 4113	Principles of Property Manage	ement	3
C. Free Elect	ive Courses	6 Cred	lits
Students ca	in take free elective courses	of 6 c	redi

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Free elective courses of the Department which are offered to non Business Chinese Major:

CN 0400	Chinese for Beginners I	3
CN 0401	Chinese for Beginners II	3



STUDY PLAN

FIRST YEAR First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
CN 1400	Introduction to Chinese	3
CN 1430	Listening and Speaking	
	in Chinese I	1
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication S	kills
	(For international students)	3
	Total	17

SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
CN 2401	Chinese II	3
CN 2431	Chinese Oral Comprehension	
	and Expression I	2
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	17

Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
CN 1401	Chinese I	3
CN 1431	Listening and Speaking in Chinese	II 1
GL 1101	Elements of Spoken Language	3
MGT 1101	Introduction to Business	3
	Total	19

Course Code	Course Title	Credits
ACT 1601	Fundamentals of Financial	
	Accounting	3
BG 2001	English IV	3
BIS 2180	Information Technology	3
CN 2402	Chinese III	3
CN 2432	Chinese Oral Comprehension	
	and Expression II	2
MGT 2900	Principles of Management	3
	Total	17



THIRD YEAR First Semester

Course Code	Course Title	Credits
CN 3403	Chinese IV	3
CN 3434	Chinese Conversation	
	and Discussion I	3
CN 3450	Introduction to Chinese Writing	3
CN 3470	Translation I: Chinese-Thai	3
or CN 3441	Chinese Reading and Oral Repor	rt
	(only for international students)	3
	One Major Elective Course	3
	One Minor Course	3
	Total	18

FOURTH YEAR First Semester

Course Code	Course Title	Credits
CN 4471	Translation II: Thai-Chinese	3
or CN 4440	Reading in Business Chinese	
	(only for international students)	3
	Two Major Elective Courses	6
	One Minor Course	3
	Two Free Elective Courses	6
	Total	18

Second Semester

Course Code	Course Title	Credits
CN 4442	Reading in Chinese Newspapers	3
GE 1101	Thai Civilization	3
GE 2202	Ethics	3
	Three Minor Courses	9
	Total	18

Course Code	Course Title	Credits
CN 3410	Business Communication	
	in Chinese	3
CN 3435	Chinese Conversation and	
	Discussion II	3
CN 3463	Introduction to Chinese Culture	3
	Two Major Elective Courses	6
	One Minor Course	3
*************	Total	18



DEPARTMENT OF BUSINESS JAPANESE

OBJECTIVES

- To produce graduates who have the characteristics, knowledge and skills as follows:
- Have a sense of social and self responsibility and become an ethical citizen of the society.
- Have up-to-date and business language skills both in Japanese and in English for listening, speaking, reading and writing through technologies.
- Demonstrate skills and expertise in applying knowledge to real life context and solving problems creatively and efficiently.
- Able to work and communicate effectively with both Thai and international people with respect and courtesy.
- Able to use information technology and other technologies in communicating and presenting information.

Science and Mathematics Courses 6 Credits

BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
B. Specialize	d Courses:	96 Credits
Core Course	S	30 Credits
BG 1301	Fundamentals of Statistics	3
BIS 1141	Business Software Application	s 0
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and Financial	
	Markets	3
GE 2103	Art of Reasoning	3
GL 1101	Elements of Spoken Language	3
GL 3102	Introduction to Linguistics	3
GL 3103	Language, Culture and Behavio	or 3
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3

Major Required Courses

39 Credits

COURSES	COL	JRS	ES
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A. General E	ducation Courses	40 Credits
Language Courses		15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For international students)	3
Social Scien	ce Courses	13 Credits
	• •	

BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 2404	Managerial Psychology	3
Humanities	6 Credits	
GE 1101	Thai Civilization	3
GE 2101	World Civilization	3

major nequ		unco
JA 1700	Introduction to Japanese	3
JA 1701	Japanese I	3
JA 2701	Japanese II	3
JA 2702	Japanese III	3
JA 2703	Basic Reading and Writing I	3
JA 2704	Basic Reading and Writing II	3
JA 3701	Intermediate Japanese Grammar	3
JA 3702	Business Japanese I	3
JA 3704	Oral Comprehension and Expression	3
JA 4701	Reading in Business Japanese I	3
JA 4702	Business Writing in Japanese I	3
JA 4703	Translation I (Japanese-Thai)	3
or JA 4721	Japanese Conversation and	
	Discussion	
	(For international students)	3
JA 4704	Translation II (Thai-Japanese)	3
or JA 4725	Translation in Business Japanese	
	(For international students)	3
Major Electi	ve Courses 9 Cre	edits
JA 3721	Introduction to Japanese	
	Linguistics	3
JA 3722	Japanese Reading and Oral Report	3
JA 3723	Introduction to Japanese Phonetics	3
JA 3724	Aspects of Japan	3
JA 3725	Japanese for Secretaries	3
JA 3726	Japanese for Tourism	3
JA 3727	Japanese for Hotels	3
JA 3728	Japanese for Airline Services	3



JA 3729 Survey of Japanese Literature			3
JA 4721	Japanese Conversation		
	and Discussion		3
JA 4722	JA 4722 Reading in Business Japanese II		3
JA 4723	Business Writing in Japanes	ell	3
JA 4724	Business Japanese II		3
JA 4725	Translation in Business Japa	inese	3
JA 4726	Public Speaking in Japanes	e	3
JA 4727	Seminar		3
Minor Cou Business C		18 Ci	redits
		12 0	o dita
Minor Requ	uired Courses	12 Ci	redits
CN 1400	Introduction to Chinese		3
CN 1401	Chinese I		3
CN 2401	Chinese II		3
CN 2402	Chinese III		3
Minor Elec	tive Courses	6 CI	redits

Minor Elective Courses

Students can take any courses from the Department of Business Chinese upon completion of the prerequisites (if any).

Business English . . .

Minor Required Courses		12 Credits
EN 2230	Listening and Speaking	3
EN 3210	Business Communication	
	in English I	3
EN 4232	Business Conversation	3
EN 4233	Public Speaking in English	3

Minor Elective Courses

6 Credits

Students can take any courses from the Department of Business English upon completion of the prerequisites (if any).

Business French

Minor Req	uired Courses	12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3
Minor Elec	tive Courses	6 Credits

Students can take any courses from the Department of Business French upon completion of the prerequisites (if any).





Thai Minor Requi	red Courses	18 Credits
TH 1500	Introduction to Thai	. 3
TH 1501	Thai Language I	3
TH 2501	Thai Language II	3
TH 2502	Thai Language III	3
TH 3501	Advanced Reading	3
TH 3502	Thai Writing Development	3
Business Info	ormation Systems	
Minor Requi	red Courses	18 Credits
BIS 3315	Programming and Algorithms	. 3
BIS 3349	Fundamentals of Computer Grap	ohics 3
BIS 3635	Database Systems	3
BIS 3655	Data Communications and	
	Networking	3
BIS 3666	Information Systems Analysis	
	and Design	3
BIS 4675	Information Systems Project	
	Management	3
Finance and	Banking	
Minor Requi		18 Credits
Minor Requi		18 Credits 3
	red Courses	
 FIN 3701	red Courses Corporate Finance	. 3
FIN 3701 FIN 3711	red Courses Corporate Finance Investment	3
FIN 3701 FIN 3711 FIN 3712	red Courses Corporate Finance Investment Money and Capital Markets	3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis	3 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance	3 3 3 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management nd Tourism Management	3 3 3 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management nd Tourism Management	3 3 3 3 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Requi	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management and Tourism Management red Courses Sustainable Tourism	3 3 3 3 3 3 3 18 Credits
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Requin 	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management and Tourism Management red Courses Sustainable Tourism Introduction to Hospitality	3 3 3 3 3 3 3 18 Credits
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Requin 	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management and Tourism Management red Courses Sustainable Tourism	3 3 3 3 3 3 18 Credits 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Requi HTM 3001 HTM 3101	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management and Tourism Management red Courses Sustainable Tourism Introduction to Hospitality Management Introduction to Tourism	3 3 3 3 3 3 18 Credits 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Requi HTM 3001 HTM 3101	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management nd Tourism Management red Courses Sustainable Tourism Introduction to Hospitality Management Introduction to Tourism Industry Management	3 3 3 3 3 3 3 18 Credits 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Require HTM 3001 HTM 3101 HTM 3102	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management nd Tourism Management red Courses Sustainable Tourism Introduction to Hospitality Management Introduction to Tourism Industry Management Consumer Behavior in Hospital	3 3 3 3 3 3 3 18 Credits 3 3 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Require HTM 3001 HTM 3101 HTM 3102 HTM 3103	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management and Tourism Management red Courses Sustainable Tourism Introduction to Hospitality Management Introduction to Tourism Industry Management Consumer Behavior in Hospital and Tourism Industry	3 3 3 3 3 3 3 18 Credits 3 3 3 1ity 3
FIN 3701 FIN 3711 FIN 3712 FIN 3714 FIN 4812 FIN 4813 Hospitality a Minor Require HTM 3001 HTM 3101 HTM 3102	red Courses Corporate Finance Investment Money and Capital Markets Business Condition Analysis International Finance Financial Management nd Tourism Management red Courses Sustainable Tourism Introduction to Hospitality Management Introduction to Tourism Industry Management Consumer Behavior in Hospital	3 3 3 3 3 3 3 18 Credits 3 3 118 Credits 3 3 118 Credits 3 3 118 Credits 3 3

	al Business Management ired Courses 18 Cre	edits
IBM 2702 IBM 3711 IBM 3713 IBM 3714 IBM 4811 MKT 3620	International Business Environment Comparative Management International Management Export-Import Policy and Strategy International Strategic Management Global Marketing	3 3 3 3 3 3 3
Industrial M Minor Requ	anagement ired Courses 18 Cre	edits
IDM 3203	Logistics and Supply Chain Management	3
IDM 3204	Industrial Safety and Risk	2
10101 3204	Management	3
IDM 4201	Manufacturing Planning and Control	3
IDM 4203	Quality Management	3
IDM 4206	Industrial Environmental Management	3
MGT 3905	Operations Management	3
Manageme	nt	
Minor Requ	ired Courses 18 Cre	edits
MGT 3901	Organization Theory	3
MGT 3903	Leadership	3
MGT 3917	Innovation and Change Management	3
MGT 3923	Strategic Human	
	Resources Management	3
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3
Marketing		
Minor Requ	ired Courses 18 Cre	edits
MKT 3102	Integrated Marketing	
	Communications	3
MKT 3525	Sales Management	3
MKT 3530	Consumer Behavior	3
MKT 3837	Service and Customer Relationship	3
MKT 4730	Marketing Management	3
MKT 4809	Marketing for Services	3
C. Free Elec	tive Courses 6 Cr	edits

Students can take free elective courses of 6 Credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR

First Semester

Code	Subjects	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
GE 1101	Thai Civilization	3
GE 1201	Information Literacy Skills	1
or GE 1204	Physical Education	1
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Sl	kills
	(For international students)	3
JA 1700	Introduction to Japanese	3
	Total	19

SECOND YEAR First Semester

Code	Subjects	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
JA 2701	Japanese II	3
JA 2703	Basic Reading and Writing I	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester

Code	Subjects	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
BG 2401	Microeconomics	3
BIS 1141	Business Software Applications	0
GL 1101	Elements of Spoken Language	3
JA 1701	Japanese I	3
MGT 1101	Introduction to Business	3
	Total	18

Code	Subjects	Credits
BG 2001	English IV	3
BIS 2180	Information Technology	3
FIN 2700	Money, Banking and	
	Financial Markets	3
JA 2702	Japanese III	3
JA 2704	Basic Reading and Writing II	3
MGT 2900	Principles of Management	3
	Total	18



THIRD YEAR

First Semester

Code	Subjects	Credits
GL 3102	Introduction to Linguistics	3
JA 3701	Intermediate Japanese Grammar	3
JA 3702	Business Japanese I	3
JA 3704	Oral Comprehension and Expression	n 3
	One Major Elective Course	3
	One Minor Course	3
	Total	18

Second Semester

Code	Subjects	Credits
JA 4703 or JA 4721	Translation I: Japanese-Thai Japanese Conversation and Discussion	3
	(For international students)	3
GL 3103	Language, Culture and Behavior	3
GE 2101	World Civilization	3
	One Major Elective Course	3
	One Minor Course	3
	One Free Elective Course	3
	Total	18

FOURTH YEAR First Semester

inscisication

Code	Subjects	Credits
JA 4701	Reading in Business Japanese I	3
JA 4702	Business Writing in Japanese I	3
JA 4704	Translation II: Thai-Japanese	3
or JA 4725	Translation in Business Japanese	
	(For international students)	3
	Two Minor Courses	6
	One Free Elective Course	3
	Total	18

Code	Subjects	Credits
GE 2202	Ethics	3
GE 2103	Arts of Reasoning	3
	One Major Elective Course	3
	Two Minor Courses	6
	Total	15



DEPARTMENT OF CHINESE FOR ECONOMY AND TRADE

OBJECTIVES

- To produce graduates who have the characteristics, knowledge and skills as follows:
- Have personal integrity, open mind and sense of self and social responsibility.
- Be proficient in Chinese language for economy and trade, and understand various aspects of Chinese culture and know how to apply them appropriately.
- Have analytical and critical skills and able to apply knowledge to real practice.
- Able to work in a team with mutual respect and courtesy.
- Able to work and communicate with both Thai and Chinese people fluently and accurately.

COURSES

<mark>A. General E</mark> Language C	ducation Courses ourses	30 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicatio	n Skills
	(For international students)	3
Social Scien	ce Courses	9 Credits
BG 2400	Macroeconomics	3
BG 2401	Microeconomics	3
GE 2202	Ethics	3
Humanities	Courses	3 Credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	3 Credits
GE 1301	Environmental Science	3

B. Specializ Core Cours	zed Courses 99 Cre es 63 Cre	
CET 1011	Foundation Chinese I	3
CET 1811	Foundation Chinese II	3
CET 1812		3
CET 1821	Chinese Listening and Speaking I	3
CET 1822	Chinese Listening and Speaking II	-
CET 1831	Chinese Reading and Writing I	3
CET 1832	Chinese Reading and Writing II	3
CET 1841	Chinese Grammar and Usage I	3
CET 1842	Chinese Grammar and Usage II	3
CET 2813	Intermediate Chinese I	3
CET 2814	Intermediate Chinese II	3
CET 2823	Intermediate Chinese Listening	
	and Speaking I	3
CET 2824	Intermediate Chinese Listening	
	and Speaking II	3
CET 2833	Intermediate Chinese Reading	
	and Writing I	3
CET 2834	Intermediate Chinese Reading	
	and Writing II	3
CET 2851	Chinese for Business I	3
CET 2852	Chinese for Business II	3
CET 3815	Advanced Chinese I	3
CET 3816	Advanced Chinese II	3
CET 3851	Chinese for Economy and Trade I	3
CET 3852	Chinese for Economy and Trade II	3
CET 4853	Chinese for Economy and Trade III	3
Major Requ	uired Courses 30 Cre	dits
CET 3853	Business Writing in Chinese I	3
CET 3853	Business Writing in Chinese I	3
CET 3854	Chinese for Business Conversation I	3
	Chinese for Business Conversation II	3
CET 3863		3
CET 4861	Business Negotiation in Chinese	3
CET 4871	Principles of Economics in Chinese	3
CET 4872	Contemporary Chinese Economy	2
	and Trade	3
CET 4873	Reading Comprehension on	-
	Economy and Trade	3
CET 4881	Business Research Methodology	
	in Chinese	3
CET 4882	Business Research Writing in Chinese	

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Major Elect	ive Courses	6 Credits
CET 4854	Thai-Chinese Translation	-
	in Economy and Trade	3
CET 4874	Directed Studies in Economy	
	and Trade	3
CN 3480	Chinese for Secretaries	3
CN 3481	Chinese for Tourism	3
CN 3482	Chinese for Hotels	3
CN 4440	Reading in Business Chinese	3

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

FIRST YEAR

First Semester

Course Cod	e Course Title	Credits
BG 1001	English I	3
CET 1811	Foundation Chinese I	3
CET 1821	Chinese Listening and Speaking I	3
CET 1831	Chinese Reading and Writing I	3
CET 1841	Chinese Grammar and Usage I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	Skills
	(For international students)	3
	Total	18

Course Coo	le Course Title	Credits
BG 1002	English II	3
CET 1812	Foundation Chinese II	3
CET 1822	Chinese Listening and Speaking II	3
CET 1832	Chinese Reading and Writing II	3
CET 1842	Chinese Grammar and Usage II	3
GE 1301	Environmental Science	3
	Total	18



SECOND YEAR First Semester

THIRD YEAR
First Semester

Course Coo	de Course Title	Credits
BG 2000	English III	3
BG 2400	Macroeconomics	3
CET 2813	Intermediate Chinese I	3
CET 2823	Intermediate Chinese Listening	
	and Speaking I	3
CET 2833	Intermediate Chinese Reading	
	and Writing I	3
CET 2851	Chinese for Business I	3
	Total	18

Second Semester

Course Coo	de Course Title	Credits
BG 2001	English IV	3
BG 2401	Microeconomics	3
CET 2814	Intermediate Chinese II	3
CET 2824	Intermediate Chinese Listening and Speaking II	3
CET 2834	Intermediate Chinese Reading and Writing II	3
CET 2852	Chinese for Business II	3
	Total	18

Credits Course Code Course Title CET 3815 Advanced Chinese I 3 CET 3851 Chinese for Economy and Trade I 3 CET 3853 Business Writing in Chinese I CET 3862 Chinese for Business Conversation I 3 3 3 GE 2202 Ethics One Free Elective Course 3 18 Total

Course Coo	de Course Title	Credits
CET 3816	Advanced Chinese II	3
CET 3852	Chinese for Economy and Trade II	3
CET 3854	Business Writing in Chinese II	3
CET 3863	Chinese for Business Conversation I	I 3
GE 2101	World Civilization	3
	One Free Elective Course	3
	Total	18



FOURTH YEAR

F	irst	Semester	

Course Coo	de Course Title	Credits
CET 4853	Chinese for Economy and Trade III	3
CET 4861	Business Negotiationin Chinese	3
CET 4871	Principles of Economics in Chinese	2 3
CET 4881	Business Research Methodology	
	in Chinese	3
	One Major Elective Course	3
	Total	15

Course Coo	de Course Title	Credits
CET 4872	Contemporary Chinese	
	Economy and Trade	3
CET 4873	Reading Comprehension	
	on Economy and Trade	3
CET 4882	Business Research Writing	
	in Chinese	3
	One Major Elective Course	3
	Total	12
	10(2)	12







Curriculum Structure Courses	Music Business	Music Performance
General Education Courses	34	34
- Language Courses	15	15
- Social Science Courses	10	10
- Humanities Courses	3	3
- Science and Mathematics Courses	6	6
Specialized Courses	103	108
- Core Courses	33	36
- Major Required Courses	37	40
- Major Elective Courses	15	14
- Minor Required Courses	12	12
- Minor Elective Courses	6	6
Free Electives Courses	6	6
Total Credits	143	148



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bacelor of Arts in Music Business / Bachelor of Music in Music Performance upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance
 from the University
- Have demonstrated good behavior and discipline
- Have participated in 16 music events stipulated in MU 7111 Concert Attendance I – VIII (Concerts, Workshops, Graduate orientation, Guest speakers and Guest lecturers)



37 Credits

DEPARTMENT OF MUSIC BUSINESS

OBJECTIVES

To produce graduates who have the characteristics,

knowledge and skills as follows:

- 1. Understand the code of ethics in the music industry.
- Have awareness of the impact of music on society and community well-being.
- Have knowledge in business and skills in performance, composition, arrangement and music technology wit individual creativity essential for musician careers as performers, writers, teachers, producers, and entrepreneurs.
- Have social understanding and appreciation of the value of musical service to community and culture, as well as the necessity of continuous improvement in their careers.
- 5. Integrate their professional growth and intellectual development with their interpersonal skills.
- Able to interact with people in the music business and with the audience during music performance.
- Able to use information technology and other technologies in communicating and presenting information.

COURSES

A. General I	Education Courses	34 Cre	dits
Language C	ourses	15 Cre	dits
BG 1001	English		3
BG 1002	English II		3
BG 2000	English III		3
BG 2001	English IV		3
GE 1403	Communication in Thai		3
or GE 1401	Language and Communicatio	n Skills	3
	(For international students)		
Social Scien	ce Courses	10 Cre	dits
Social Scien BG 2403	ce Courses Introduction to Economics	10 Cre	dits 3
		10 Cre	
BG 2403	Introduction to Economics	10 Cre	3
BG 2403 GE 1201	Introduction to Economics Information Literacy Skills	10 Cre	3 1
BG 2403 GE 1201 GE 2202	Introduction to Economics Information Literacy Skills Ethics Managerial Psychology	10 Cre 3 Cre	3 1 3 3

Science and Mathematics Courses		6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3
	B. Specialized Courses Core Courses	
EN 3289	English for Music Business	3
MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
MU 0020	Fundamentals of Music	
	Theory	Non-credit
MU 2211	History of Thai Music	3
MU 3221	History of Western Music I	2
MU 3222	History of Western Music II	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance I-VIII	Non-credit

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MB 2421	Music Production Technology	3
MB 2521	Music Business I	3
MB 2522	Music Business II	3
MB 3421	Music Business Technology	3
MB 3512	Legal Aspects of Music Business	3
MB 3513	Local Internship in Music	
	Industry (240 hours)	3
MB 4511	Music Business Artist/Project	
	Management	3
MB 4521	Selected Topics in Music Industry I	1
MB 4522	Selected Topics in Music Industry II	2
MB 4523	Music Business Seminar	2
MU 0111	Ear Training I	1
MU 0112	Ear Training II	1
MU 1111	Theory of Western Music I	3
MU 1112	Theory of Western Music II	3
MU 2113	Theory of Western Music III	3

Major Required Courses



Major Elective Courses

15 Credits

MA 0610	Music Ensemble		2
MA 2501	Chorus I		1
MA 2502	Chorus II		1
MA 2503	Chorus III		1
MA 2504	Chorus IV		1
MA 4311	Advanced Performance I		2
MA 4312	Advanced Performance II		2
MB 3423	Sound Design and Sound Lo		3
MB 3531	History of Music Industry in 7		3
MB 3532	Classical Music Management	2	3
MB 4512	Music in Film Industry		3
MB 4514	Career Options in Music Busi		3
MGT 3922	Introduction to New Venture		3
MGT 3924	Human Resources Developm	ient	3
MKT 3627	Sales Promotion		3
MKT 3628	Public Relations		3
MKT 3629	Pricing Strategy and Decision	า	3
MKT 3823	Marketing Channel Strategy		2
	and Decisions		3
MKT 4725	Competitive Analysis and Str		3
MKT 4726	Advertising and Creative Stra		3
MKT 4806	Product and Brand Manager	nent	3 3
MU 2221	Popular Music Literature		3
MU 3121	Composition	tion	э З
MU 3731	Introduction to Music Educa	lion	э З
MU 4103 MU 4112	Form and Analysis Arranging		3
MU 4112 MU 4223	Music in Human Life		3
1010 4225	Music III Human Life		J
Minor Course	es	18 Credi	its
Marketing			
Minor Requi	red Courses	18 Credi	its
MKT 3102	Integrated Marketing		2
MUT 2525	Communications Sales Management		3
MKT 3525	Consumer Behavior		3
MKT 3530	Service and Customer		5
MKT 3837	Relationship Management		3
MKT 4730	Marketing Management		3
MKT 4809	Marketing for Services		3
Managemen Miner Poqui		18 Cred	ite
Minor Requi	rea courses	To Cied	its

MGT 3901	Organization Theory	3
MGT 3903	Leadership	3
MGT 3917	Innovation and Change Management	3
MGT 3923	Strategic Human Resources	
	Management	3
MGT 3942	Organizational Behavior	3
MGT 4916	Negotiation Strategy	3

Business Er	aglish	
	uired Courses	12 Credits
EN 2230	Listening and Speaking	3
EN 3210	Business Communication	
	in English I	3
EN 4232	Business Conversation	3
EN 4233	Public Speaking in English	3
Minor Elec	tive Courses	6 Credits
	an take any courses from the E s English upon completion of t :es (if any).	
Business Fi	rench	
Minor Req	uired Courses	12 Credits
FR 1500	Introduction to French	3
FR 1501	French I	3
FR 2501	French II	3
FR 2502	French III	3
Minor Elec	tive Courses	6 Credits

Students can take any courses from the Department of Business French upon completion of the prerequisites (if any).

Business Chinese

Minor Required Courses		12 Credits
CN 1400	Introduction to Chinese	3
CN 1401	Chinese I	3
CN 2401	Chinese II	3
CN 2402	Chinese III	3
Minor Elec	tive Courses	6 Credits

Students can take any courses from the Department of Business Chinese upon completion of the prerequisites (if any).



Minor Elective Courses

6 Credits

STUDY PLAN

Students can take any courses from the Department of Business Japanese upon completion of the prerequisites (if any).

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

D. Free Elective Courses open to non-music students

Free elective courses which are offered by the Department of Music Business of School of Music:

MA 0610	Music Ensemble	2
MA 1300	Introduction to Applied Music	1
MU 1001	Music Appreciation	3

FIRST YEAR

First Semester

Course Code Course Title

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
GE 1201	Information Literacy Skills	1
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skills	
	(For international students) 3
GE 2101	World Civilization	3
MA 1301	Applied Music I	2
MU 0111	Ear Training I	1
MU 1111	Theory of Western Music I	3
MU 7111	Concert Attendance I	Non-credit
	Total	19

Course Code Course Title		Credits
BG 1002	English II	3
GE 1301	Environment Science	3
MA1302	Applied Music II	2
MGT 1101	Introduction to Business	3
MU 0112	Ear Training II	1
MU 1112	Theory of Western Music II	3
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance II	Non-credit
	Total	18





SECOND YEAR First Semester

Course Code Course Title Credit		
BG 2000	English III	3
BG 2403	Introduction to Economics	3
MA 2301	Applied Music III	2
MB 2521	Music Business I	3
MGT 2900	Principles of Management	3
MU 2113	Theory of Western Music III	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance III	Non-credit
	Total	19

Second Semester

Course Cod	e Course Title	Credits
BG 2001	English IV	3
MA 2302	Applied Music IV	2
MB 2421	Music Production Technology	ogy 3
MB 2522	Music Business II	3
MGT 2404	Managerial Psychology	3
MKT 2280	Principles of Marketing	3
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance IV	Non-credit
	Total	19

THIRD YEAR First Semester

Course Coo	le Course Title	Credits
EN 3289	English for Music Business	5 3
MA 3301	Applied Music V	2
MB 3421	Music Business Technolog	ју З
MB 3512	Legal Aspects of Music Bu	isiness 3
MU 4221	History of Western Music	III 2
MU 7111	Concert Attendance V	Non-credit
	One Major Elective Course	e 3
	One Minor Course	3
	Total	19

Second Semester

Course Coo	le Course Title	Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MB 4511	Music Business Artist/Proje	ct
	Management	3
MU 7111	Concert Attendance VI	Non-credit
	One Major Elective Course	3
	One Minor Course	3
	Total	

Summer Session

Course Code Course Title		Credits
MB 3513	Local Internship in Music Industry (240 hours)	3
	Total	- 3



FOURTH YEAR First Semester

Second Seme	ester

Course Coc	le Course Title Cr	edits
MB 4521	Selected Topics in Music Industry I	1
MU 7111	Concert Attendance VII Non-c	redit
	Two Major Elective Courses	6
	Two Minor Courses	6
	One Free Elective Course	3
	Total	16

Course Cod	le Course Title	Cre	dits
MB 4522	Selected Topics in Music Indu	stry II	2
MB 4523	Music Business Seminar		2
MU 7111	Concert Attendance VIII	Non-cr	edit
	One Major Elective Course		3
	Two Minor Courses		6
	One Free Elective Course		3
	Total		16





DEPARTMENT OF MUSIC PERFORMANCE

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Understand the code of ethics in the music industry.
- Have awareness of the impact of music on society and community well-being.
- Have knowledge and skills in performance, composition, arrangement and music technology with individual creativity essential for musician careers as performers, writers, teachers and producers.
- Have social understanding and appreciation of the value of musical service to community and culture, as well as the necessity of continuous improvement in their careers.
- Integrate their professional growth and intellectual development with their interpersonal skills.
- Able to interact with people in the music business and with the audience during music performance.
- Able to use information technology and other technologies in communicating and presenting information.

COURSES

A. General Education Courses		redits
Language Courses		redits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skill (For international students)	s 3
Social Scien	ce Courses 10 C	redits

GE 1201	Information Literacy Skills	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
MGT 2404	Managerial Psychology	3

Humanities Courses		3 Credits
GE 2101	World Civilization	3
Science and Mathematics Courses		6 Credits
BG 1200 GE 1301	Mathematics for Business Environmental Science	3

B. Specialized Courses

Core Courses

108 Credits 36 Credits

MA 2501	Chorus I	1
MA 2502	Chorus II	1
MA 2503	Chorus III	1
MA 2504	Chorus IV	1
MU 0020	Fundamentals of	
	Music Theory	Non-credit
MU 1111	Theory of Western Music I	3
MU 1112	Theory of Western Music II	3
MU 1201	Ear Training I	2
MU 1202	Ear Training II	2
MU 2113	Theory of Western Music III	3
MU 2114	Theory of Western Music IV	3
MU 2203	Ear Training III	2
MU 2204	Ear Training IV	2
MU 2211	History of Thai Music	3
MU 3221	History of Western Music I	2
MU 3222	History of Western Music II	2
MU 4221	History of Western Music III	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance I-VIII	Non-Credit
Major Requ	ired Courses	40 Credits

Major Required Courses Jazz Major

CEL 1101	Sight Reading Lab I	1
CEL 1102	Sight Reading Lab II	1
CIS 1401	Keyboard harmony I	2
CIS 1402	Keyboard harmony II	2
CIS 1501	Instrumental Instruction I	2
CIS 1502	Instrumental Instruction II	2
CIS 2503	Instrumental Instruction III	2
CIS 2504	Instrumental Instruction IV	2
CIS 3505	Instrumental Instruction V	2
CIS 3506	Instrumental Instruction VI	2
CIS 4507	Instrumental Instruction VII	2
CIS 4508	Instrumental Instruction VIII	2
CMP 1201	Contemporary Arranging I	3
CMP 1202	Contemporary Arranging II	3
CPS 1101	Jazz Improvisation I	2
CPS 1102	Jazz Improvisation II	2
CPS 2101	Jazz Improvisation III	2



CPS 3401	Performance Ear Training I	
CPS 3402	Performance Ear Training II	
CPS 4401	Jazz Recital	

Songwriting Major

CEL 1101	Sight Reading Lab I
CEL 1102	Sight Reading Lab II
CIS 1401	Keyboard harmony I
CIS 1402	Keyboard harmony II
CIS 1501	Instrumental Instruction I
CIS 1502	Instrumental Instruction II
CIS 2503	Instrumental Instruction III
CIS 2504	Instrumental Instruction IV
CMP 1201	Contemporary Arranging I
CMP 1202	Contemporary Arranging II
CMP 2601	Practicum in Music Technology
CMP 3105	Traditional Harmony I
CMP 3106	Traditional Harmony II
CMP 3204	Arranging for Song Writing
CMP 3601	Songwriting
CMP 3602	Advanced Song Writing
CMP 3611	Vocal and Lyric Writing
CMP 4110	Jazz Composition
MU 1401	Computer for Musicians

Piano Major

MA 1301	Applied Music I
MA 1302	Applied Music II
MA 2301	Applied Music III
MA 2302	Applied Music IV
MA 3301	Applied Music V
MA 3302	Applied Music VI
MA 4301	Applied Music VII
MA 4302	Applied Music VIII
MC 2301	Accompaniment I
MC 2302	Accompaniment II
MC 3201	Keyboard Literature I
MC 3202	Keyboard Literature II
MC 3310	Junior Recital
MC 4311	Senior Recital
MC 4710	Piano Pedagogy
MU 2501	Ensemble I
MU 2502	Ensemble II
MU 3501	Ensemble III

Harpsichord Major

MA 1301	Applied Music I
MA 1302	Applied Music II
MA 2301	Applied Music III
MA 2302	Applied Music IV

MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MA 4301	Applied Music VII	2
MA 4302	Applied Music VIII	2
MC 3201	Keyboard Literature I	3
MC 3202	Keyboard Literature II	3
MC 3310	Junior Recital	2
MC 3511	Introduction to Basso Continuo	2
MC 3512	Advanced Basso Continuo	2
MC 4311	Senior Recital	4
MC 4711	Harpsichord Pedagogy	2
MU 2501	Ensemble I	2
MU 2502	Ensemble II	2
MU 3501	Ensemble III	2

Guitar Major

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MA 4301	Applied Music VII	2
MA 4302	Applied Music VIII	2
MA 3501	Flamenco Techniques	2
MC 3221	Guitar Literature I	3
MC 3222	Guitar Literature II	3
MC 3310	Junior Recital	2
MC 4212	Lute Tablature	2
MC 4311	Senior Recital	4
MC 4712	Guitar Pedagogy	2
MU 2501	Ensemble I	2
MU 2502	Ensemble II	2
MU 3501	Ensemble III	2

Lute Major

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MA 4301	Applied Music VII	2
MA 4302	Applied Music VIII	2
MC 3231	Lute Literature I	3
MC 3232	Lute Literature II	3
MC 3310	Junior Recital	2
MC 3511	Introduction to Basso Continuo	2
MC 4212	Lute Tablature	2
MC 4311	Senior Recital	4
MC 4713	Lute Pedagogy	2



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MU 2501	Ensemble I	
MU 2502	Ensemble II	
MU 3501	Ensemble III	

Vocal Major

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 1401	Piano Harmony I	2
MA 1402	Piano Harmony II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MA 4301	Applied Music VII	2
MA 4302	Applied Music VIII	2
MC 2242	Opera Staging	2
MC 2511	Vocal Diction I	1
MC 2512	Vocal Diction II	1
MC 3241	Vocal Literature	3
MC 3242	Opera Literature	3
MC 3310	Junior Recital	2
MC 3513	Vocal Diction III	1
MC 3514	Vocal Diction IV	1
MC 4311	Senior Recital	4
MC 4714	Vocal Pedagogy	2

String, Percussion, Woodwind and Brass Major

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 1401	Piano Harmony I	2
MA 1402	Piano Harmony II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3301	Applied Music V	2
MA 3302	Applied Music VI	2
MA 4301	Applied Music VII	2
MA 4302	Applied Music VIII	2
MC 3310	Junior Recital	2
MC 4311	Senior Recital	4
MC 4715	String Pedagogy	
	(for String major only)	2
or MC 4716	Percussion Pedagogy	
	(for Percussion major only)	2
or MC 4717	Woodwind Pedagogy	
	(for Woodwind major only)	2
or MC 4718	Brass Pedagogy	
	(for Brass major only)	2
MU 2501	Ensemble I *	2
MU 2502	Ensemble II *	2
MU 3501	Ensemble III *	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

Compositio	n Major	
CMP 4117	Counterpoint I	
CMP 4118	Counterpoint II	
MA 1101	Applied Composition I	
MA 1102	Applied Composition II	
MA 1401	Piano Harmony I	
MA 2101	Applied Composition III	
MA 2102	Applied Composition IV	
MA 3101	Applied Composition V	
MA 3102	Applied Composition VI	
MA 4101	Applied Composition VII	
MA 4102	Applied Composition VIII	
MC 4312	Recital for Composition	
MU 1401	Computer for Musicians	
MU 2101	Orchestration	
MU 2102	Conducting	
MU 3110	Techniques of Modern Composition	
MU 4103	Form and Analysis	
Major Electi		dit
		un
CEL 1510	Pop / Rock Ensemble I	
CEL 1511	Jazz Ensemble I	
CEL 1512	Vocal Ensemble I	
CEL 1513	Funk / Fusion Ensemble I	
CEL 1514	Blues / R&B Ensemble I	
CEL 1515	Latin Ensemble I	
CEL 2510	Pop / Rock Ensemble II	
CEL 2511	Jazz Ensemble II	
CEL 2512	Vocal Ensemble II	
CEL 2513	Funk / Fusion Ensemble II	
CEL 2514	Blues / R&B Ensemble II	
CEL 2515	Latin Ensemble II	
CMP 2601	Practicum in Music Technology	
CMP 2602	Song Demo Production	
CMP 3105	Traditional Harmony I	
CMP 3106	Traditional Harmony II	
CMP 3303	Chord Scale Voicing for Arranging	
CMP 3603	Music Production for all Media	
CMP 3604	Jingle Writing	
CMP 3611	Vocal and Lyric Writing	
CMP 4109	Reharmonization Techniques	
CMP 4117	Counterpoint I	
CMP 4118	Counterpoint II	
CPS 3401	Performance Ear Training I	
CPS 3402	Performance Ear Training II	
MA 1401	Piano Harmony I	
MA 1402	Piano Harmony II	
MA 3801	Contemporary Music Ensemble	
MA 3901	Baroque Music Ensemble	
MB 2521	Music Business I	
MB 3512	Legal Aspects of Music Business	
MC 2211	History of Music Notation	
MC 2301	Accompaniment I	
MC 2302	Accompaniment II	



MC 3511	Introduction to Basso Continu	10 2
MC 3512	Advanced Basso Continuo	2
MC 4212	Lute Tablature	2
MU 1401	Computer for Musicians	3
MU 2101	Orchestration	3
MU 2102	Conducting	2
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4000	Selected Topics in Music	
	Performance	3
MU 4103	Form and Analysis	3
MU 4223	Music in Human Life	3
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2
		1 m m

Minor Required Courses 12 Credits

Students have to select one minor and take the specified minor required coures.

Jazz Minor

CIS 1501	Instrumental Instruction I	2
CIS 1502	Instrumental Instruction II	2
CIS 2503	Instrumental Instruction III	2
CIS 2504	Instrumental Instruction IV	2
CIS 3505	Instrumental Instruction V*	2
CIS 3506	Instrumental Instruction VI*	2
CIS 4507	Instrumental Instruction VII*	2
CIS 4508	Instrumental Instruction VIII*	2
CPS 3401	Performance Ear Training I	2
CPS 3402	Performance Ear Training II	2

Songwriting Minor

anging for Song Writing	2
ord Scale Voicing for Arranging	2
g Writing	2
anced Song Writing	2
le Writing	2
Composition	2
	anging for Song Writing ord Scale Voicing for Arranging g Writing ranced Song Writing gle Writing composition

Piano Minor

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 2301	Accompaniment I	2
MC 2302	Accompaniment II	2

Harpsichord Minor

MA 1301 MA 1302 MA 2301 MA 2302 MC 3511 MC 3512	Applied Music I Applied Music II Applied Music III Applied Music IV Introduction to Basso Continuo Advanced Basso Continuo	2 2 2 2 2 2 2
Guitar Min	or	
MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MA 3501	Flamenco Techniques	2
MC 4212	Lute Tablature	2
Lute Minor		
MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 3511	Introduction to Basso Continuo	2
MC 3512	Advanced Basso Continuo	2
Vocal Mino	r	
MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MC 2511	Vocal Diction I	1
MC 2512	Vocal Diction II	1
MC 3513	Vocal Diction III	1
MC 3514	Vocal Diction IV	1
String, Perc	cussion, Woodwind and Brass Minor	
MA 1301	Applied Music I	2

MA 1301	Applied Music I	2
MA 1302	Applied Music II	2
MA 2301	Applied Music III	2
MA 2302	Applied Music IV	2
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2


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Composition Minor

CMP 4117	Counterpoint I	2
CMP 4118	Counterpoint II	2
MA 1101	Applied Composition I	2
MA 1102	Applied Composition II	2
MA 2101	Applied Composition III	2
MA 2102	Applied Composition IV	2
Minor Elective Courses		6 Credits

Students have to take minor elective courses according to their minor selection.

Jazz Minor

CEL 1510	Pop / Rock Ensemble I	1
CEL 1511	Jazz Ensemble I	1
CEL 1512	Vocal Ensemble I	1
CEL 1513	Funk / Fusion Ensemble I	1
CEL 1514	Blue / R&B Ensemble I	1
CEL 1515	Latin Ensemble I	1
CEL 2510	Pop / Rock Ensemble II	1
CEL 2511	Jazz Ensemble II	1
CEL 2512	Vocal Ensemble II	1
CEL 2513	Funk / Fusion Ensemble II	1
CEL 2514	Blue / R&B Ensemble II	1
CEL 2515	Latin Ensemble II	1
CPS 1101	Jazz Improvisation I	2
CPS 1102	Jazz Improvisation II	2
CPS 2101	Jazz Improvisation III	2
0.02101	suce improvisation in	~

Songwriting Minor

CMP 2601	Practicum in Music Technology
CMP 2602	Song Demo Production
CMP 3105	Traditional Harmony I
CMP 3106	Traditional Harmony II
CMP 3603	Music Production for All Media
CMP 3611	Vocal and Lyric Writing
CMP 4109	Reharmonization Techniques

Piano Minor

		7-7-1
MC 3201	Keyboard Literature I	3
MC 3202	Keyboard Literature II	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

Harpsichord Minor

MC 3201	Keyboard Literature I	3
MC 3202	Keyboard Literature II	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2
Cuitar Min		

Guitar Minor

MC 3221	Guitar Literature I	3
MC 3222	Guitar Literature II	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

Lute Minor

		ten bei sei sei sei
MC 3231	Lute Literature I	3
MC 3232	Lute Literature II	3
MC 4212	Lute Tablature	2
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

String, Percussion, Woodwind and Brass Minor

MU 2101	Orchestration	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4103	Form and Analysis	3
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

Vocal Minor

MC 3241	Vocal Literature	3
MC 3242	Opera Literature	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2



Composition Minor

MU 1401	Computer for Musicians	3
MU 2101	Orchestration	3
MU 2501	Ensemble I*	2
MU 2502	Ensemble II*	2
MU 3110	Techniques of Modern Composition	3
MU 3501	Ensemble III*	2
MU 3502	Ensemble IV *	2
MU 4103	Form and Analysis	3
MU 4501	Ensemble V *	2
MU 4502	Ensemble VI *	2

* This is the sequential of Ensemble courses. If the student has passed one course, he will skip to the following one

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits, from Assumption University upon completion of the prerequisites (if any)

D. Free Elective Courses offered to non-music students

The following courses are offered as free elective to students from other faculties.

MA 1000	Dasic Guitar Instructions	1
MA 1700	Basic Vocal Instructions	1
MU 1701	Jazz Music Appreciation	3
MU 1702	Popular Music Appreciation	3





STUDY PLAN Jazz Major

FIRST YEAR First Semeste	er	
Course Code	e Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
CIS 1401	Keyboard Harmony I	2
CIS 1501	Instrumental Instruction I	2
GE 1403	Communication in Thai	3
or GE 1401 Language and Communication Skill		
	(For international students)	3
MA 2501	Chorus I	1
MU 1201	Ear Training I	2
MU 1111	Theory of Western Music I	3
MU 7111	Concert Attendance I	Non-credit
	Total	

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
CIS 1402	Keyboard Harmony II	2
CIS 1502	Instrumental Instruction II	2
GE 1301	Environmental Science	3
MA 2502	Chorus II	1
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance II	Non-credit
	Total	19

SECOND YEAR First Semester

Course Cod	e Course Title	Credits
BG 2000	English III	3
CEL 1101	Sight Reading Lab I	1
CIS 2503	Instrumental Instruction III	2
CPS 1101	Jazz Improvisation I	2
CPS 3401	Performance Ear Training I	2
GE 1201	Information Literacy Skills	1
MA 2503	Chorus III	1
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 7111	Concert Attendance III	Non-credit
	Total	17

Course Code Course Title		Credits
BG 2001	English IV	3
CEL 1102	Sight Reading Lab II	1
CIS 2504	Instrumental Instruction IV	2
CPS 1102	Jazz Improvisation II	2
CPS 3402	Performance Ear Training II	2
MA 2504	Chorus IV	1
MGT 1101	Introduction to Business	3
MU 2114	Theory of Western Music IV	3
MU 2204	Ear Training IV	2
MU 7111	Concert Attendance IV	Non-credit
	Total	19



Course Code Course Title		Credits
CIS 3505	Instrumental Instruction V	2
CMP 1201	Contemporary Arranging I	3
CPS 2101	Jazz Improvisation III	2
GE 2101	World Civilization	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	2
	Total	18

Second Semester

Course Code Course Title		Credits
CIS 3506	Instrumental Instruction VI	2
CMP 1202	Contemporary Arranging II	3
MGT 2404	Managerial Psychology	3
MU 3222	History of Western Music II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	2
	Total	19

FOURTH YEAR First Semester

Course Code Course Title		Credits
CIS 4507	Instrumental Instruction VII	2
GE 2202	Ethics	3
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	5
	Minor Required Course (s)	2
	Minor Elective Course (s)	2
	Free Elective Course (s)	3
	Total	

Course Code Course Title		Credits
CIS 4508	Instrumental Instruction VII	1 2
CPS 4401	Jazz Recital	2
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	9
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	18



STUDY PLAN Songwriting Major

FIRST YEAR First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
BG 1200	Mathematics for Business	3
CIS 1401	Keyboard Harmony I	2
CIS 1501	Instrumental Instruction I	2
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	ion Skills
	(For international students)	3
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 7111	Concert Attendance I	Non-credit
	Total	

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
CIS 1402	Keyboard Harmony II	2
CIS 1502	Instrumental Instruction II	2
GE 1301	Environmental Science	3
MA 2502	Chorus II	1
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 1401	Computer for Musicians	3
MU 7111	Concert Attendance II	Non-credit
	Total	19

SECOND YEAR First Semester

_____ Course Code Course Title Credits _____ BG 2000 English III 3 CEL 1101 Sight Reading Lab I 1 CIS 2503 Instrumental Instruction III 2 CMP 2601 Practicum in Music Technology 3 MA 2503 Chorus III 1 MGT 1101 Introduction to Business 3 MU 2113 Theory of Western Music III 3 MU 2203 Ear Training III 2 MU 7111 Concert Attendance III Non-credit -----Total 18

Course Code	e Course Title	Credits
BG 2001	English IV	3
CEL 1102	Sight Reading Lab II	1
CIS 2504	Instrumental Instruction IV	2
CMP 1201	Contemporary Arranging I	3
MA 2504	Chorus IV	1
MU 2114	Theory of Western Music IV	3
MU 2204	Ear Training IV	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance IV	Non-credit
	Total	18



Course Code Course Title		Credits
CMP 1202	Contemporary Arranging II	3
CMP 3105	Traditional Harmony I	2
CMP 3601	Song Writing	2
CMP 3611	Vocal and Lyric Writing	2
GE 1201	Information Literacy Skills	1
MGT 2404	Managerial Psychology	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Course (s)	4
	Total	19

FOURTH YEAR First Semester

Course Code Course Title		Credits
CMP 3204	Arranging for Song Writing	2
GE 2202	Ethics	3
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	7
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	

Second Semester

Course Cod	e Course Title	Credits
CMP 3106	Traditional Harmony II	2
CMP 3602	Advanced Song Writing	2
GE 2101	World Civilization	3
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Courses	6
	Total	19

Course Code	Credits			
CMP 4110 MU 4223	Jazz Composition Music in Human Life	2		
MU 4223 MU 7111	Concert Attendance VIII	د Non-credit		
	Major Elective Courses	7		
	Minor Required Course (s)	2		
	Free Elective Course (s)	3		
Total 17				



STUDY PLAN Piano Major

FIRST YEAR First Semeste	er	
Course Code	Course Title	Credits
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	ion Skills
	(For international students)	3
GE 1201	Information Literacy Skills	1
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	18

Second Semester

Course Cod	e Course Title	Credits
BG 1002	English II	3
GE 1301	Environmental Science	3
GE 2101	World Civilization	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 1101	Introduction to Business	3
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	20

SECOND YEAR

First Semester

Course Coc	le Course Title	Credits
BG 1200	Mathematics for Business	3
BG 2000	English III	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 2301	Accompaniment I	2
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	18

Course Cod	e Course Title	Credits
BG 2001	English IV	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MC 2302	Accompaniment II	2
MU 2114	Theory of Western Music IV	/ 3
MU 2204	Ear Training IV	2
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	18



Course Code (Course Title	Credits
MA 3301	Applied Music V	2
MC 3201	Keyboard Literature I	3
MGT 2404	Managerial Psychology	3
MU 3221	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V No	on-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

FOURTH YEAR First Semester

	Credits
Applied Music VII	2
Piano Pedagogy	2
History of Western Music III	2
Concert Attendance VII No	n-credit
Major Elective Courses	8
Minor Required Course (s)	2
Free Elective Course (s)	3
Total	19
	Piano Pedagogy History of Western Music III Concert Attendance VII No Major Elective Courses Minor Required Course (s) Free Elective Course (s)

Second Semester

Course Code	Course Title	Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MC 3202	Keyboard Literature II	3
MC 3310	Junior Recital	2
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI No	on-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

Course Code	Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attendance VIII Non-credit	
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	17



STUDY PLAN Harpsichord Major

FIRST YEAR First Semester

Course Code	e Course Title	Credits
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	tion Skills
	(For international students)	3
GE 1201	Information Literacy Skills	1
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	18

Second Semester

Course Code	Credits	
BG 1002	English II	3
GE 1301	Environment Science	3
GE 2101	World Civilization	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 1101	Introduction to Business	3
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	20

SECOND YEAR First Semester

Course Code	e Course Title	Credits
BG 1200	Mathematics for Business	3
BG 2000	English III	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 3511	Introduction to Basso Continuo	2
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III Non-	credit
	Total	. 18

Course Coo	Credits	
BG 2001	English IV	3
GE 2202	Ethics	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MC 3502	Advanced Basso Continuo	2
MU 2114	Theory of Western Music I	V 3
MU 2204	Ear Training IV	2
MU 2502	Ensemble II	2
MU 7111	Concert Attendance IV	Non-credit
	Total	18



Course Code Course Title		Credits
MA 3301	Applied Music V	2
MC 3201	Keyboard Literature I	3
MGT 2404	Managerial Psychology	3
MU 3221	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

FOURTH YEAR First Semester

Course Code Course Title		Credits
MA 4301	Applied Music VII	2
MC 4711	Harpsichord Pedagogy	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19

Second Semester

Course Cod	e Course Title	Credits
MA 3302	Applied Music VI	2
MC 3310	Junior Recital	2
MC 3202	Keyboard Literature II	3
MU 3222	History of Western Music II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

Course Coo	le Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	



STUDY PLAN Guitar Maior

Guitar Major	
FIRST YEAR First Semester	
Course Code Course Title	Credits
BG 1001 English I	3
GE 1201 Information Literacy	/ Skills 1
GE 1403 Communication in T	Thai 3
or GE 1401 Language and Com	munication Skills
(For international st	udents) 3
MA 1301 Applied Music I	2
MA 2501 Chorus I	1
MU 1111 Theory of Western M	Ausic I 3
MU 1201 Ear Training I	2
MU 2211 History of Thai Musi	c 3
MU 7111 Concert Attendance	
Total	18

SECOND YEAR First Semester

Course Cod	e Course Title	Credits
BG 2000	English III	3
GE 1301	Environmental Science	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MGT 1101	Introduction to Business	3
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	19

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 2404	Managerial Psychology	3
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	17

Course Coo	Credits	
BG 2001	English IV	3
GE 1201	World Civilization	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MU 2114	Theory of Western Music IV	/ 3
MU 2204	Ear Training IV	2
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	19



Course Coo	de Course Title	Credits
MA 3301	Applied Music V	2
MA 3501	Flamenco Techniques	2
MC 3221	Guitar Literature I	3
MC 4212	Lute Tablature	2
MU 3221	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	20

FOURTH YEAR First Semester

Course Coo	Credits	
MA 4301	Applied Music VII	2
MC 4713	Guitar Pedagogy	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19

Second Semester

Course Code Course Title		Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MC 3222	Guitar Literature II	3
MC 3310	Junior Recital	2
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

Course Cod	le Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	



STUDY PLAN Lute Major

FIRST YEAR		
First Semeste	er	
Course Code	Course Title	Credits
BG 1001	English I	3
GE 1201	Information Literacy Skills	1
GE 1403	Communication in Thai	3
or GE 1401	Language and Communicat	ion Skills
	(For international students)	3
MA 1301	Applied Music I	2
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	

SECOND YEAR First Semester

Course Cod	e Course Title	Credits
BG 2000	English III	3
GE 1301	Environmental Science	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MGT 1101	Introduction to Business	3
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	19

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
MA 1302	Applied Music II	2
MA 2502	Chorus II	1
MGT 2404	Managerial Psychology	3
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	17

Course Coc	le Course Title	Credits
BG 2001	English IV	3
GE 2101	World Civilization	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MU 2114	Theory of Western Music IV	3
MU 2204	Ear Training IV	2
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	



Course Cod	e Course Title	Credits
MA 3301	Applied Music V	2
MC 3231	Lute Literature I	3
MC 3511	Introduction to Basso Con	tinuo 2
MU 3221	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	18

FOURTH YEAR First Semester

Course Code Course Title		Credits
MA 4301	Applied Music VII	2
MC 4713	Lute Pedagogy	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	6
	Minor Required Courses	4
	Free Elective Course (s)	3
	Total	19

Second Semester

Course Code	Course Title	Credits
GE 2202	Ethics	3
MA 3302	Applied Music VI	2
MC 3232	Lute Literature II	3
MC 3310	Junior Recital	2
MC 4212	Lute Tablature	2
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Course (s)	2
	Minor Elective Course (s)	3
	Total	

Course Coo	le Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attedence VIII	Non-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19



STUDY PLAN Vocal Major

FIRST YEAR First Semester Course Code Course Title Credits BG 1001 English I 3 GE 1201 Information Literacy Skills 1 GE 1403 Communication in Thai 3 or GE 1401 Language and Communication Skills 1 (For international students) 3 MA 1301 Applied Music I 2 MA 2501 Chorus I 1 MC 2511 Vocal Diction I 1 MU 1201 Ear Training I 2 MU 7111 Concert Attendance I Non-credit Total 18			
BG 1001 English I 3 GE 1201 Information Literacy Skills 1 GE 1403 Communication in Thai 3 or GE 1401 Language and Communication Skills (For international students) 3 MA 1301 Applied Music I 2 MA 1401 Piano Harmony I 2 MA 2501 Chorus I 1 MC 2511 Vocal Diction I 1 MU 1111 Theory of Western Music I 3 MU 1201 Ear Training I 2 MU 7111 Concert Attendance I Non-credit		er	
GE 1201Information Literacy Skills1GE 1403Communication in Thai3or GE 1401Language and Communication Skills (For international students)3MA 1301Applied Music I2MA 1401Piano Harmony I2MA 2501Chorus I1MC 2511Vocal Diction I1MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	Course Code	e Course Title	Credits
GE 1403Communication in Thai3or GE 1401Language and Communication Skills (For international students)3MA 1301Applied Music I2MA 1401Piano Harmony I2MA 2501Chorus I1MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	BG 1001	English I	3
or GE 1401 Language and Communication Skills (For international students) 3 MA 1301 Applied Music I 2 MA 1401 Piano Harmony I 2 MA 2501 Chorus I 1 MC 2511 Vocal Diction I 1 MU 1111 Theory of Western Music I 3 MU 1201 Ear Training I 2 MU 7111 Concert Attendance I Non-credit	GE 1201	Information Literacy Skills	1
(For international students)3MA 1301Applied Music I2MA 1401Piano Harmony I2MA 2501Chorus I1MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	GE 1403	Communication in Thai	3
MA 1301Applied Music I2MA 1401Piano Harmony I2MA 2501Chorus I1MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	or GE 1401	Language and Communicat	tion Skills
MA 1401Piano Harmony I2MA 2501Chorus I1MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit		(For international students)	3
MA 2501Chorus I1MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	MA 1301	Applied Music I	2
MC 2511Vocal Diction I1MU 1111Theory of Western Music I3MU 1201Ear Training I2MU 7111Concert Attendance INon-credit	MA 1401	Piano Harmony I	2
MU 1111 Theory of Western Music I 3 MU 1201 Ear Training I 2 MU 7111 Concert Attendance I Non-credit	MA 2501	Chorus I	1
MU 1201 Ear Training I 2 MU 7111 Concert Attendance I Non-credit	MC 2511	Vocal Diction I	1
MU 7111 Concert Attendance I Non-credit	MU 1111	Theory of Western Music I	3
	MU 1201	Ear Training I	2
Total 18	MU 7111	Concert Attendance I	Non-credit
		Total	

SECOND YEAR **First Semester**

Course Cod	le Course Title	Credits
BG 2000	English III	3
GE 1301	Environmental Science	3
GE 2202	Ethics	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MC 3513	Vocal Diction III	1
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 7111	Concert Attendance III	Non-credit
	Total	18

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
MA 1302	Applied Music II	2
MA 1402	Piano Harmony II	2
MA 2502	Chorus II	1
MC 2512	Vocal Diction II	1
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance II	Non-credit
	Total	20

Total

Course Code	Course Title	Credits
BG 2001	English IV	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MC 2242	Opera Staging	2
MC 3514	Vocal Diction IV	1
MU 2114	Theory of Western Music IV	3
MU 2204	Ear Training IV	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	17



Course Code Course Title		Credits
GE 2101	World Civilization	3
MA 3301	Applied Music V	2
MC 3241	Vocal Literature	3
MGT 1101	Introduction to Business	3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	20

Second Semester

Course Code Course Title		Credits
MA 3302	Applied Music VI	2
MC 3242	Opera Literature	3
MC 3310	Junior Recital	2
MGT 2404	Managerial Psychology	3
MU 3222	History of Western Music II	2
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

FOURTH YEAR

First Semester

Course Coc	le Course Title	Credits
MA 4301	Applied Music VII	2
MC 4714	Vocal Pedagogy	2
MU 4221	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	

Course Code Course Title		Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19



STUDY PLAN String, Percussion, Woodwind and Brass Major

FIRST YEAR First Semester

Course Code	e Course Title	Credits
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communic	ation Skills
	(For international students	s) 3
MA 1301	Applied Music I	2
MA 1401	Piano Harmony I	2
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	19

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
GE 1201	Information Literacy Skills	1
MA 1302	Applied Music II	2
MA 1402	Piano Harmony II	2
MA 2502	Chorus II	1
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	17

SECOND YEAR First Semester

Course Cod	e Course Title	Credits
BG 2000	English III	3
GE 1301	Environmental Science	3
MA 2301	Applied Music III	2
MA 2503	Chorus III	1
MGT 2404	Managerial Psychology	3
MU 2113	Theory of Western Music III	3
MU 2203	Ear Training III	2
MU 2501	Ensemble I	2
MU 7111	Concert Attendance III	Non-credit
	Total	

Course Coo	Credits	
BG 2001	English IV	3
GE 2202	Ethics	3
MA 2302	Applied Music IV	2
MA 2504	Chorus IV	1
MU 2114	Theory of Western Music IV	V 3
MU 2204	Ear Training IV	2
MU 2502	Ensemble II	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	19



THIRD YEAR

First	Semest	ter

Course Code Course Title		Credits
GE 2101	World Civilization	3
MGT 1101	Introduction to Business	3
MA 3301	Applied Music V	2
MU 3211	History of Western Music I	2
MU 3501	Ensemble III	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

Second Semester

Course Code Course Title		Credits
MA 3302	Applied Music VI	2
MC 3310	Junior Recital	2
MU 3222	History of Western Music II	2
MU 3502	Ensemble IV	2
MU 7111	Concert Attendance VI	Non-credit
	Major Elective Courses	4
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

FOURTH YEAR First Semester

Course Title	Credits
Applied Music VII	2
String Pedagogy	
(for String major only)	2
Percussion Pedagogy	
(for Percussion major only)	2
Woodwind Pedagogy	
(for Woodwind only)	2
Brass Pedagogy	
(for Brass major only)	2
History of Western Music III	2
Ensemble V	2
Concert Attendance VII	Non-credit
Major Elective Courses	4
Minor Required Course (s)	2
Free Elective Course (s)	3
Total	
	Applied Music VII String Pedagogy (for String major only) Percussion Pedagogy (for Percussion major only) Woodwind Pedagogy (for Woodwind only) Brass Pedagogy (for Brass major only) History of Western Music III Ensemble V Concert Attendance VII Major Elective Courses Minor Required Course (s) Free Elective Course (s)

Course Coc	le Course Title	Credits
MA 4302	Applied Music VIII	2
MC 4311	Senior Recital	4
MU 4502	Ensemble VI	2
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	



STUDY PLAN Composition Major

FIRST YEAR First Semester

Course Code	e Course Title	Credits
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communica	tion Skills
	(For international students)	3
MA 1101	Applied Composition I	2
MA 1401	Piano Harmony I	
MA 2501	Chorus I	1
MU 1111	Theory of Western Music I	3
MU 1201	Ear Training I	2
MU 2211	History of Thai Music	3
MU 7111	Concert Attendance I	Non-credit
	Total	19

SECOND YEAR First Semester

Course Code	e Course Title	Credits
BG 2000	English III	3
MA 2101	Applied Composition III	2
MA 2503	Chorus III	1
MGT 1101	Introduction to Business	3
MU 2101	Orchestration	3
MU 2203	Ear Training III	2
MU 2113	Theory of Western Music III	3
MU 7111	Concert Attendance III	Non-credit
	Total	

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1200	Mathematics for Business	3
GE 1201	Information Literacy Skills	1
GE 1301	Environmental Science	3
MA 1102	Applied Composition II	2
MA 2502	Chorus II	1
MU 1112	Theory of Western Music II	3
MU 1202	Ear Training II	2
MU 7111	Concert Attendance II	Non-credit
	Total	18

Course Coo	le Course Title	Credits
BG 2001	English IV	3
GE 2101	World Civilization	3
MA 2102	Applied Composition IV	2
MA 2504	Chorus IV	1
MU 2102	Conducting	2
MU 2114	Theory of Western Music IV	3
MU 2204	Ear Training IV	2
MU 4223	Music in Human Life	3
MU 7111	Concert Attendance IV	Non-credit
	Total	



Course Code Course Title		Credits
CMP 4117	Counterpoint I	2
MA 3101	Applied Composition V	2
MU 1401	Computer for Musicians	3
MU 3110	Techniques of Modern Compo	osition 3
MU 3221	History of Western Music I	2
MU 7111	Concert Attendance V	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

Second Semester

Course Code Course Title		Credits
CMP 4118	Counterpoint II	2
MA 3102	Applied Composition VI	2
MGT 2404	Managerial Psychology	3
MU 3222	History of Western Music II	2
MU 4103	Form and Analysis	3
MU 7111	Concert Attendance VI	Non-credit
	Minor Required Courses	4
	Minor Elective Course (s)	3
	Total	19

FOURTH YEAR

First Semester

Course Code Course Title		Credits
GE 2202	Ethics	3
MA 4101	Applied Composition VII	2
MU 4223	History of Western Music III	2
MU 7111	Concert Attendance VII	Non-credit
	Major Elective Courses	6
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	18

Course Coc	le Course Title	Credits
MA 4102	Applied Composition VIII	2
MC 4312	Recital for Composition	4
MU 7111	Concert Attendance VIII	Non-credit
	Major Elective Courses	8
	Minor Required Course (s)	2
	Free Elective Course (s)	3
	Total	19



BERNADETTE DE LOURDES SCHOOL OF NURSING SCIENCE

Curriculum Structure

Courses	Credits
General Education Courses	30
Social Science Courses	4
Humanities Courses	3
Language Courses	15
Science and Mathematics Courses	8
Specialized Course	109
Basic Professional Courses	28
Professional Courses	81
Free Elective Courses	6
Total	145

OBJECTIVES

The Nursing Science Program of Au aims to educate qualified professional nursing graduates who:

- 1. Exercise leadership, moral and ethical mind in daily life and working;
- 2. Demonstrate sense of maturity; assertiveness and social accountability;
- Have knowledge in nursing science and related sciences, and able to apply it in nursing practice by demonstrating professionalism and good management;
- 4. Have ability and skills in nursing informatics, numerical and statistics analyses;
- Use critical thinking skills in problem solving and utilize the scientific process in conducting research;
- Able to establish interpersonal relationships and effectively collaborate among health care team;
- Able to communicate in English with clients and health care team effectively by being multicultural sensitive;
- Perform nursing practice with caring and compassionate attitude according to the role and scope of the profession, and the professional code of ethics in providing holistic health services using client-centered approach;
- 9. Demonstrate faith and good attitude toward nursing profession and perform self development for the professional growth.



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Nursing Science to students who meet all the following requirements:

- Complete a minimum of 145 credits of the program
- Obtain at least "C" grade in all professional courses
- Participate in 16 sessions of the student assembly in Business and Professional Ethics Seminar
- Earn a cumulative grade point average of at least 2.00 ("C" average)
- Demonstrate good behavior and self-discipline by obtaining at least 70% of disciplinary scores
- Have library and financial clearance with the university

Assumption University of Thailand | Bernadette De Lourdes School of Nursing Science

COURSES

General Edu	ucation Courses 30 C	redits
Language (Courses 15 C	redits
BG 1001 BG 1002 BG 2000 BG 2001	English I English II English III English IV	3 3 3 3
GE 1401 GE 1403	Language and Communication Skil (For international students) Communication in Thai (For Thai students)	ls 3 3
Social Scier	nce Courses 4 Cr	edits
GE 1204 GE 2202	Physical Education Ethics	1 3
Humanities	Courses 3 Cr	edits
GE 2101	World Civilization	3
Science and	d Mathematics Courses 8 C	redits
BG 1301 GE 1301 BG 2301	Fundamentals of Statistics Environmental Science Information Technology for Nurses	3 3 2
Specialized	Courses 109 Cre	dits
Basic Profes	ssional Courses 28 Cree	dits
NB 1202 NB 1203 NB 1205 NB 1207 NB 1210 NB 1212 NB 2209 NB 2211 NB 2212 NB 2213	Anatomy Physiology Biochemistry Microbiology and Parasitology Pathophysiology Nutrition for Healthy Life Style Pharmacology Multiculturalism in Health Care Psychology and Mental Health Health Innovation and Knowledge Management	3 3 3 3 3 3 1 2 1
NB 4201	Entrepreneurship in Health Care	3

Professiona	al Courses	81 Credits
Theory		52 Credits
NS 1307	Foundation of Professional	
	Nursing I	2
NS 1310	Professional Socialization I	2
NS 1311	Scientific Nursing Approach	
	and Holistic Health Assessme	
NS 1312	Health Promotion throughou	
	Lifespan	2
NS 1313	Foundation of Professional	-
	Nursing II	2
NS 2310	Alteration in Adult Health	
NIC 2214	and Nursing I	3
NS 2311	Alteration in Adult Health	-
NC 2212	and Nursing II	3
NS 2312	Gerontology Nursing	1
NS 2320	Family-Centered Care for	
NC 2221	Infant, Child, and Adolescent	
NS 2321	Family-Centered Care for Infa	
NIC 2222	Child, and Adolescent II	3
NS 2322	Holistic Childbearing and	3
NS 2323	Family Nursing I	5
113 2323	Holistic Childbearing and Family Nursing II	2
NS 3316	Critical Care Nursing	2
NS 3322	Bio-Behavioral-Psychiatric	2
N3 3322	Nursing	3
NS 3323	Community Focused Nursing	-
NS 3324	Disaster Nursing	יע 2 1
NS 3325	Holistic Childbearing and	1
NJ JJ2J	Family Nursing III	3
NS 3326	Nursing Inquiry I	2
NS 4308	Nursing Leadership and	2
113 4500	Management	3
NS 4320	Community Focused Nursing	
NS 4322	Professional Socialization II	2
NS 4323	Therapeutic Health Assessme	
NS 4325	Nursing Informatics	1



Practicum	29 Cred	dits
NS 1403	Nursing Experience I	1
NS 1404	Nursing Experience II	1
NS 2418	Clinical Practicum for Professional	
	Nursing Foundation	2
NS 2419	Clinical Practicum in Adult Health	
	Nursing I	2
NS 2420	Clinical Practicum in Adult Health	
	Nursing II	2
NS 2422	Holistic Childbearing and Family	
	Nursing Practicum I	1
NS 2423	Family-Centered Care for Infant,	
	Child, and Adolescent	
	Nursing Practicum I	1
NS 3400	Mental Health and Psychiatric	
	Nursing Practicum	2
NS 3401	Nursing Inquiry II	1
NS 3425	Holistic Childbearing and Family	
	Nursing Practicum II	2
NS 3422	Holistic Childbearing and Family	
	Nursing Practicum III	2
NS 3423	Family-Centered Care for Infant,	
	Child, and Adolescent	
	Nursing Practicum II	2
NS 3424	Critical Care Nursing Practicum	2
NS 4413	Nursing Leadership and	
	Management Practicum	2
NS 4417	Community Focused Nursing	
	Practicum	3
NS 4418	Therapeutic Health Assessment	
	Practicum	1
NS 4419	Comprehensive Nursing Skills	2

Free Electiv	ve Course	6 Credits
NE 3501	Spa and Aroma Therapy	3
NE 3502	Massage as an Alternative	
	Health Care	3
NE 3505	Oriental Exercise for Health	3
NE 4502	Adolescent Health	3





STUDY PLAN

Second Semester

FIRST YEAR

First Semester

Code	Subjects	Credits
BG 1001	English I	3
GE 1401	Language and Communication	Skills
	(For international students)	3
GE 1403	Communication in Thai	
	(For Thai students)	3
NB 1202	Anatomy	3
NB 1203	Physiology	3
NB 1205	Biochemistry	3
NB 1207	Microbiology and Parasitology	3
	Total	18

Code	Subjects	Credits
BG 1002	English II	3
GE 1204	Physical Education	1
NB 1210	Pathophysiology	3
NB 1212	Nutrition for Healthy Lifestyle	3
NS 1307	Foundation of Professional	
	Nursing I	2
NS 1311	Scientific Nursing Approach and Holistic Health Assessment	d 3
NS 1312	Health Promotion throughout	
	Lifespan	2
NS 1403	Nursing Experience I	1
	Total	18

Summer Session

Code	Subjects	Credits
NS 1310	Professional Socialization I	2
NS 1313	Foundation of Professional	
	Nursing II	2
NS 1404	Nursing Experience II	1
NB 2211	Multiculutralism in Health Care	1
	Total	6





SECOND YEAR

First Semester

Code	Subjects	Credits
BG 2000	English III	3
NB 2209	Pharmacology	3
NS 2310	Alteration in Adult Health	
	and Nursing I	3
NS 2312	Gerontology Nursing	1
NS 2320	Family-Centered Care for Infant,	
	Child, and Adolescent I	2
NS 2418	Clinical Practicum for	
	Professional Nursing Foundation	n 2
NS 2419	Clinical Practicum in Adult	
	Health Nursing I	2
	Total	16

Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
BG 2301	Information Technology for Nur	ses 2
NS 2311	Alteration in Adult Health	
	and Nursing II	3
NB 2212	Psychology and Mental Health	2
NS 2322	Holistic Childbearing and	
	Family Nursing I	3
NS 2420	Clinical Practicum in Adult	
	Health Nursing II	2
NS 2423	Family-Centered Care for Infant,	
	Child, and Adolescent	
	Nursing Practicum I	1
NB 2213	Health Innovation and	
	Knowledge Management	1
	Total	17

Summer Session

Code	Subjects	Credits
NS 2321	Family-Centered Care for Infant,	
	Child, and Adolescent II	3
NS 2323	Holistic Childbearing and	
	Family Nursing II	2
NS 2422	Holistic Childbearing and Family	y
	Nursing Practicum I	1
	Total	6





Code	Subjects	Credits
GE 1301	Environmental Science	- 3
BG 1301	Fundamentals of Statistics	3
NS 3325	Holistic Childbearing and	
	Family Nursing III	3
NS 3326	Nursing Inquiry I	2
NS 3423	Family-Centered Care for	
	Infant, Child, and Adolescent	
	Nursing Practicum II	2
NS 3425	Holistic Childbearing and	
	Family Nursing Practicum II	2
	Total	- 15

Second Semester

Code	Subjects	Credits
GE 2101	World Civilization	3
NS 3401	Nursing Inquiry II	1
NS 3316	Critical Care Nursing	2
NS 3322	Bio-Behavioral-Psychiatric	
	Nursing	3
NS 3422	Holistic Childbearing and	
	Family Nursing Practicum III	2
NS 3424	Critical Care Nursing Practicum	2
	One Free Elective Course	3
	Total	16

Summer Session

Code	Subjects	Credits
NS 3323	Community Focused Nursing I	2
NS 3324	Disaster Nursing	1
NS 3400	Mental Health and Psychiatric	
	Nursing Practicum	2
	Total	5





FOURTH YEAR First Semester

Code	Subjects	Credits
GE 2202	Ethics	3
NS 4308	Nursing Leadership and	
	Management	3
NS 4320	Community Focused Nursing II	3
NS 4323	Therapeutic Health Assessment	2
NS 4417	Community Focused Nursing	
	Practicum	3
NS 4418	Therapeutic Health Assessment	
	Practicum	1
	One Free Elective Course	3
	Total	18

Code	Subjects	Credits
NB 4201	Entrepreneurship in Health Care	e 3
NS 4322	Professional Socialization II	2
NS 4325	Nursing Informatics	1
NS 4413	Nursing Leadership and	
	Management Practicum	2
NS 4419	Comprehensive Nursing	
	Practicum	2
	Total	10





W.

VINCENT MARY SCHOOL OF SCIENCE AND TECHNOLOGY

Curriculum Structure

Courses	CS	IT	
A. General Education Courses • Language Courses • Social Science Courses • Humanities Courses • Science and Mathematics Courses	30 12 6 3 9	30 12 6 3 9	
 B. Specialized Courses Basic Courses Major Required Courses Major Elective Courses 	90 15 36 39	90 30 30 30 30	
C. Free Electives Courses	6	6	
Total Credits	126	126	



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Science upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the
 Professional Ethics Seminar
- Have obtained library and financial clearance
 from the University
- Have demonstrated good behavior and discipline



DEPARTMENT OF COMPUTER SCIENCE

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows: The program is designed to produce graduates who:

- Have morals and ethics. •
- Socially responsible and understand well the impacts and consequences of technology towards society and the environment.
- Have the knowledge and understanding of the • major principles and theories of computer science.
- Capable of developing the fundamentals of computer programs and with the expertise to analyze, operate and manage computer systems.
- Able to understand the organization and operation of the computer hardware.
- Able to help in the promotion and collaboration of transfer technology which is undergoing rapid development.
- Capable of meeting the nation's present and future needs for computer science experts in the application and development for computer planning.
- Possess systematical, logical and critical thinking skills.
- Able to work with a team and be a leader or a follower.
- Have responsibility in the assigned tasks and continuously have self-development in the field of computer science.
- Able to communicate effectively.

COURSES

A. General E Language Co	<mark>ducation Courses</mark> ourses	30 credits 12 credits
BG 1001 BG 1002 BG 2000 BG 2001	English I English II English III English III English IV	 3 3 3
Humanities (3 credits
GE 2101	World Civilization	3
Social Scienc	e Courses	6 credits
GE 2202 MGT1101	Ethics Introduction to Business	3
Science and	9 credits	
DA 1121	Basic Mathematics and Statistics	3
MT 1602 MT 4201	Fundamentals of Financial Accounting	3
MT 4201	Social Interests, Government Policies and Technology	3
B. Specialized Basic Courses		90 credits 15 credits
CS 2101	Mathematics Foundation for Computer Science	3
DA 2101	Calculus I	3
DA 2101 DA 2103		3
	Principles of Statistics	3
LA 4606 MT 4323	Intellectual Property Law Entrepreneurship in	3
1011 4525	Lindepreneurship in	

Major Required Courses

36 credits

3

CS 1201	Computer Programming I	3
CS 1202	Computer Programming II	3
CS 2201	Data Structures and Algorithms	3
CS 2202	Computer Architecture	3
CS 2203	Programming Languages	3
CS 2204	Database Systems	3
CS 2205	Operating Systems	3
CS 2206	Computer Networks	3
CS 3200	Senior Project I	3
CS 3201	Algorithms Design	3
CS 4200	Senior Project II	3
IT 2231	Introduction to	
	Information Technology	3

Technology Business



Major Elective Courses

39 credits

Group 1: Students are required to select at least 8 courses (24 credits).

CS 3441	Biometrics	3
CS 3442	Computer Graphics	3
CS 3443	Computer Network Security	3
CS 3444	Image Processing	3
CS 3445	Enterprise Database System	3
CS 3446	Fundamentals of Cloud Computing	3
CS 3447	Information Retrieval &	
	Search Engines	3
CS 3448	Recommender Systems	3
CS 3449	Machine Learning	3
CS 3450	Systems Analysis and Design	3
CS 3452	Theory of Computation	3
CS 3453	Web Application Development	3
CS 4400	Seminar in Computer Science	3
CS 4401-99	Selected Topics	3

Group 2: Students are required to choose one concentration and study 5 courses (15 credits) from the chosen concentration.

Group 2(A) Software Engineering

0.000 -0.00	sitting incerning	
CS 3411	Human Computer Interaction	3
CS 3412	ICT Project Management	3
CS 3413	Software Architecture and Design	3
CS 3414	Software Engineering	3
CS 3415	Software Engineering Workshop	3
CS 3416	Software Quality Assurance	3
CS 3417	Software Verification and Validation	3

Group 2(B) Informatics

CS 3421	Artificial Intelligence Concepts	3
CS 3422	Introduction to Big Data Analytics	3
CS 3423	Data Mining	3
CS 3424	Data Warehousing and	
	Business Intelligence	3
CS 3425	Intelligent System Development	3
CS 3426	Multiprocessor Programming	3
CS 3427	Numerical Analysis	3

Group 2(C) Software Design and Development

CS 3414	Software Engineering	3
CS 3431	Android Application Development	3
CS 3432	iOS Application Development	3
CS 3433	Enterprise Application Development	3
CS 3434	Introduction to Game Development	3
CS 3435	Game Design and	
	Development Workshop	3
CS 3436	UI/UX Design and Prototyping	3

C. Free Elective Courses

6 credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





STUDY PLAN

FIRST YEAR First Semester -----Course Code Course Title Credits _____ ----BG 1001English ICS 1201Computer Programming IDA 1121Basic Mathematics and StatisticsIT 2231Introduction to 3 3 3 3 Information Technology 3 MGT 1101 Introduction to Business _____ Total 15

Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
CS 1202	Computer Programming II	3
DA 2101	Calculus I	3
DA 2103	Principles of Statistics	3
GE 2101	World Civilization	3
MT 1602	Fundamentals of	
	Financial Accounting	3
	Total	18

SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
CS 2201	Data Structures and Algorithms	; 3
CS 2202	Computer Architecture	3
CS 2203	Programming Language	3
CS 2101	Mathematics Foundation	
	for Computer Science	3
	One Major Elective Course	3
	Total	18

Course Code	Course Title	Credits
BG 2001	English IV	3
CS 2204	Database Systems	3
CS 2205	Operating Systems	3
CS 2206	Computer Networks	3
	Two Major Elective Courses	6
	Total	18



THIRD YEAR

First	Semester

Course Code	Course Title	Credits
CS 3201	Algorithms Design	3
GE 2202	Ethics	3
LA 4606	Intellectual Property Law	3
	Three Major Elective Courses	9
	Total	18

Second Semester

Course Code	Course Title	Credits
CS 3200 MT 4201	Senior Project I Social Interests, Government	3
	Policies, and Technology	3
	Two Major Elective Courses	6
	One Free Elective Course	3
	Total	15

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
	Five Major Elective Courses One Free Elective Course	15 3
	Total	18

Course Code	Course Title	Credits
CS 4200	Senior Project II	3
MT 4323	Entrepreneurship in	
	Technology Business	3
	Total	6





DEPARTMENT OF INFORMATION TECHNOLOGY

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:The program is designed to produce graduates who:

- Have morals and ethics.
- Understand and responsible for the impacts and consequences of technology towards society and the environment.
- Have the knowledge and understanding of the major principles and theories of information technology.
- Able to manage and develop information systems and communication network.
- Capable of applying new technology in the design, operation, linkage, control and management of information systems.
- Possess systematical, logical and critical thinking skills.
- Able to provide advice and coordinate the services needed by executives in both internal and external units of organizations.
- Able to provide solutions related to information systems in the dynamic environment.
- Able to work with a team and to be a leader or follower
- Have responsibility in the assigned tasks and continuously have self-development in the field of information technology.
- Able to communicate effectively in listening, speaking, reading and writing both in Thai and English.

COURSES

		30 credits 12 credits
BG 1001	English I	3
BG 1001	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Science	e Courses	6 credits
GE 2202	Ethics	
MGT 1101	Introduction to Business	3
Humanities (Course	3 credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	9 credits
DA 1121	Basic Mathematics and	
	Statistics	3
DA 2103	Principles of Statistics	3
MT 4201	Social Interests, Government	t
	Policies and Technology	3
B. Specialized	d Courses	90 credits
Basic Course	S	30 credits
DA 2101	Calculus I	3
DA 2203	Probability and	
	Statistical Methods	3
IT 1251	Business Systems	3
IT 2130	Systems Science	3
IT 2157	Human Computer Interactio	n 3
IT 2220	Computer System Concepts	3
IT 2231	Introduction to	
	Information Technology	3
IT 3111	User Interface Design	3
LA 4606	Intellectual Property Law	3
CS 1201	Computer Programming I	3



Major Required Courses 30 credits IT 2211 Requirement Engineering 3 IT 2230 Information Structures 3 IT 3210 Database Management Systems 3 IT 3231 Information Systems Analysis 3 IT 3232 Information Systems Design 3 IT 3253 Data Communication and Networking 3 IT 4291 Senior Project I 3 Senior Project II 3 IT 4292 Software Engineering Concepts IT 4314 3 IT 4315 Object Oriented Concept in Analysis and Design 3

Major Elective Courses

30 credits

Major Elective courses are divided into two Groups. Students need to study major elective courses from each group according to the following conditions.

Group 1: Students must select at least 3 courses (9 credits).

IT 2371	Object Oriented Programming I	3
IT 3351	Web Design and Development I	3
IT 3355	Mobile Applications Development	3
IT 3371	Object Oriented Programming II	3
IT 3372	Visual Programming	3
IT 4367	Web Design and Development II	3

Group 2: Students must select at least 7 courses (21 credits).

IT 3211	Information Storage and Retrieval	3
IT 3230	Management Information Systems	3
IT 3331	Organizational Behavior and	
	Development	3
IT 4141	Public Relations	3
IT 4311	Introduction to Computer Graphics	3
IT 4316	Image Processing	3
IT 4331	Software Testing	3
IT 4340	Introduction to	
	Information Resource Management	3
IT 4358	Expert Systems	3
IT 4359	E-Commerce	3
IT 4360	Multimedia Applications	3
IT 4363	Information System Security	
	and Auditing	3
IT 4366	Advanced Data	
	Management Systems	3
IT 4400-99	Selected Topic	3

C. Free Elective Courses

6 credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
DA 1121	Basic Mathematics	
	and Statistics	3
IT 2130	Systems Science	3
IT 2231	Introduction to	
	Information Technology	3
MGT 1101	Introduction to Business	3
CS 1201	Computer Programming I	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
DA 2103	Principles of Statistics	3
GE 2101	World Civilization	3
IT 1251	Business Systems	3
IT 2220	Computer Systems Concepts	3
IT 2230	Information Structures	3
	Total	18

SECOND YEAR

First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
DA 2101	Calculus I	3
IT 2157	Human Computer Interaction	3
IT 2211	Requirement Engineering	3
IT 3210	Database Management System	s 3
IT 3253	Data Communication	
	and Networking	3
	Total	18

e Course Title	Credits
English IV	3
Probability and	
Statistical Methods	3
Ethics	3
Information Systems Analysis	3
One Major Elective Course	
from Group I	3
One Major Elective Course	
from Group II	3
Total	18
	Probability and Statistical Methods Ethics Information Systems Analysis One Major Elective Course from Group I One Major Elective Course from Group II


THIRD YEAR First Semester

Course Code	Course Title	Credits
IT 3111	User Interface Design	3
IT 3232	Information Systems Design	3
LA4606	Intellectual Property Law	3
	One Major Elective Course	
	from Group I	3
	One Major Elective Course	
	from Group II	3
	One Free Elective Course	3
	Total	18

FOURTH YEAR First Semester

Course Code	e Course Title	Credits
IT 4291	Senior Project I	3
MT 4201	Social Interests, Government	
	Policies and Technology	3
	Three Major Elective Course	
	from Group II	9
	Total	15

Second Semester

Course Code	Course Title	Credits
IT 4314 IT 4315	Software Engineering Concept Objects Oriented Concept in	s 3
	Analysis and Design One Major Elective Course	3
	from Group I One Major Elective Course	3
	from Group II	3
	One Free Elective Course	3
	Total	15

Course Code	e Course Title	Credits
IT 4292	Senior Project II	3
	One Major Elective Course	
	from Group II	3
	Total	6





VINCENT MARY SCHOOL OF ENGINEERING

Curriculum Structure

Courses	Computer Engineering	Electrical and Electronic Engineering	Telecommunication and Electronic Engineering	Mechatronics Engineering
A. General Education Courses - Language Courses - Social Science Courses - Humanities Courses - Science and Mathematics Courses	30 12 6 3 9	34 12 6 3 13	34 12 6 3 13	34 12 6 3 13
B. Specialized Courses - Basic Engineering Courses - Core Courses - Major Required Courses - Major Elective Courses	110 20 11 70 9	105 20 21 58 6	107 20 20 61 6	106 20 21 59 6
C. Free Electives Courses	6	6	6	6
Total Credits	146	145	147	146



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Engineering upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline



Assumption University of Thailand | Vincent Mary School of Engineering

DEPARTMENT OF COMPUTER ENGINEERING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Have moral and professional ethics.
- 2. Have knowledge in Computer Engineering and able to apply knowledge.
- 3. Capable of conducting research in both theoretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people at all levels.
- 5. Have strong mathematical, computational and information technology skills.

A. General Education Courses Language Courses		30 Credits 12 credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000 BG 2001	English III English IV	3
DG 2001	English iv	2
Social Science	e Courses	6 credits
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Martio	introduction to business	5
Humanities C	ourses	3 credits
GE 2101	World Civilization	3
	Mathematics Courses	9 credits
BG 1221	Computer Programming	3
BG 2208	Discrete Mathematics	3
GE 1301	Environmental Science	3
	Courses	110 Cradita
B. Specialized		110 Credits
B. Specialized Basic Enginee		110 Credits 20 credits
Basic Enginee	ering Courses	20 credits
Basic Enginee BG 1204	ering Courses Calculus I	20 credits
Basic Enginee BG 1204 BG 1205	ring Courses Calculus I Calculus II	20 credits 3 3
Basic Enginee BG 1204 BG 1205 BG 1211	rring Courses Calculus I Calculus II Physics I	20 credits 3 3 3
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212	rring Courses Calculus I Calculus II Physics I Physics Laboratory I	20 credits 3 3 3 1
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213	rring Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II	20 credits 3 3 1 3
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214	rring Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II	20 credits 3 3 1 3 1 3 1
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207	rring Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II Engineering Mathematics	20 credits 3 3 1 3 1 3 1 3 3
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses	ering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II Engineering Mathematics Statistics for Engineers	20 credits 3 3 1 3 1 3 1 3 1 3 1 1 3 3 11 credits
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203	ering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Signals and Systems	20 credits 3 3 1 3 1 3 1 1 3 1 1 3 3 11 credits 3
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203 ME 1112	ering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers Signals and Systems Engineering Laboratory	20 credits 3 3 1 3 1 3 11 3 11 credits 3 2
Basic Enginee BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203	ering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Signals and Systems	20 credits 3 3 1 3 1 3 1 1 3 1 1 3 3 11 credits 3



Major Required Courses for All Majors 58 credits CE 2102 Data Structure and Algorithms 3 CE 2703 Introduction to Computer Systems 3 CE 2704 Digital Logic Design 3 CE 2705 Digital Logic Design Laboratory 1 CE 2709 **Computer Architecture** 3 CE 3002 **Commercial Application** Programming 3 CE 3103 **Computer Operating Systems** 3 CE 3104 Software Engineering 3 CE 3109 Database Management Systems 3 CE 3111 Design and Analysis of Algorithms 3 CE 4207 System and Network Programming 3 CE 4221 Network Applications and Technology 3 CE 4224 Telecommunication Networks 1 Laboratory CE 4225 Computer and Network Security 3 CE 4228 Data Communication and Networking 3 CE 4905 Computer and Network **Engineering Project I** 1 CE 4906 Computer and Network Engineering Project II 2 **Electric Circuits** 3 EE 2201 EE 2202 Electric Circuits Laboratory 1 EE 2605 **Engineering Electronics** 3 EE 2606 **Engineering Electronics** 1 Laboratory EE 3703 Microprocessors 3 TE 3000 Principles of Communications 3 Major Required Courses for **Computer Systems** 12 credits

CE 3105	Microprocessor Programming	
	Using Assembly & C	3
CE 3106	Programming Languages	3
CE 3707	Microprocessor Systems Design	3
CE 3710	Microprocessor Systems	
	Design Laboratory	1
CE 4001	Software Development	
	Laboratory	1
CE 4711	Microcomputer Interfacing	
	Laboratory	1

Technology	12 0	redit
CE 3901	Digital Audio/Video Coding Technique	3
CE 4223	Advanced Computer Networks	-
CE 4225 CE 4226		2
CE 4226	Network Systems Analysis and Design	3
CE 4227	Mobile and Wireless Networks	3
Major Elect	ive Courses 9 d	redit
AD 3114	Interactive Advertising and	
	Marketing Communication	3
CE 4106	Object-Orient Programming	3
CE 4108	Operations Research	3
CE 4109	Information Systems Analysis	
	and Design	1
CE 4110	Compilers	
CE 4114	Data Mining	
CE 4713	Advanced Computer	
CL 4715	Architecture	
CE 4714	Fault-Tolerant Computer	
CE 4714	Artificial Intelligence	
CE 4905	Advanced Topics in	
CE 4905	• • • • • • • • • • • • • • • • • • • •	
CE 400C	Computer Engineering	
CE 4906	Special Problems in	
FF 2401	Computer Engineering	
EE 2401	Electromechanical Energy	
	Conversion	
EE 2402	Electromechanical Energy	
	Conversion Laboratory	
EE 3301	Electromagnetic Fields	1
EE 3406	Control Systems	
EE 3601	Electronic Circuit Design	
EE 3602	Electronic Circuit Design	
	Laboratory	
EE 3704	Embedded Systems	
EE 4305	Digital Signal Processing	
EE 4403	Basic Mechatronics	-
EE 4503	Electrical Systems Design	
EE 4602	Industrial Instrumentation	
15 4201	and Control	
IE 4201	Engineering Management	3
IE 4203	Engineering Economics	
MCE 4801	Instrument for Aviation	(
NM 3410	New Media Application	
NM 4405	Broadcast and New Media	
	Management	1



TE 4107	Digital Telephony	3
TE 4112	Optical Communications	3
TE 4201	Communication Electronics	3
TE 4202	Communication Electronics	
	Laboratory	1
TE 4204	Optoelectronics	3
TS 4261	Internetworking Workshop I	4
TS 4262	Internetworking Workshop II	4

Students can also select major required courses of other majors as their major elective courses.

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR		
First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

Course Code	Course Title 0	Credits
BG 1002	English II	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
CE 2102	Data Structure and Algorithms	3
CE 2703	Introduction to Computer System	ns 3
	Total	19



SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
ME 2211	Engineering Mechanics I	3
GE 2101	World Civilization	3
	Total	20
	IUtal	20

Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
EE 2203	Signals and systems	3
EE 2605	Electronic Circuit Analysis	3
EE 2606	Electronic Circuit Analysis	
	Laboratory	1
GE 1301	Environmental Science	3
	Total	16
		- 2

THIRD YEAR First Semester

Course Code	Course Title	Credits
CE 2709	Computer Architecture	3
CE 3103	Computer Operating Systems	3
CE 3109	Database Management System	ns 3
CE 4228	Data Communication and	
	Networking	3
EE 3703	Microprocessors	3
TE 3000	Principles of Communications	3
	Total	18

Course Coc	le Course Title	Credits
CE 3104	Software Engineering	3
CE 3111	Design and Analysis of	
	Algorithms	3
CE 4207	System and Network	
	Programming	3
CE 4221	Network Applications and	
	Technology	3
For Concen	tration in Computer Systems	
CE 3105	Microprocessor Programming	
	Using Assembly & C	3
CE 3707	Microprocessor Systems Design	n 3
CE 3710	Microprocessor Systems	
	Design Laboratory	1
	Total	19

CE 3901	Digital Audio/Video Coding	
	Technique	3
CE 4223	Advanced Computer Networks	3
	Total	18

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FOURTH YEAR

First Semester

Course Code	Course Title	Credits
CE 3002	Commercial Application	
	Programming	3
CE 4224	Telecommunication Networks	
	Laboratory	1
CE 4225	Computer and Network Securi	ty 3
CE 4905	Computer and Network	
	Engineering Project I	1
	One Major Elective Course	3
	One Free Elective Course	3
For Concentra	ation in Computer Systems	
CE 3106	Programming Languages	3
CE 4711	Microcomputer Interfacing	
	Laboratory	1
	One Major Elective Course	3
	Total	18
10 M		

For Concentration in Network Technology Major

CE 4226	Network Systems Analysis	
	and Design	3
	One Major Elective Course	3
***********	Total	17

Course Code		Credits
CE 4906	Computer and Network	
	Engineering Project II	2
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
	One Free Elective Course	3
For Concentra	ation in Computer Systems	
CE 4001	Software Development Laborat	ory 1
	One Major Elective Course	3
	One Major Elective Course	3
	Total	18
	ation in Network Technology Ma	

For Concer	tration in Network Technology Major	
CE 4227	Mobile and Wireless Networks	3
	One Major Elective Course	3
	Total	17





DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- · Have moral and professional ethics.
- Have knowledge in electrical engineering and able to apply knowledge in the administration of building electrical systems, high-voltage systems, illumination systems, industrial electrical systems, and safety in electrical systems.
- Capable of conducting research in both theoretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people of all levels.
- Have strong mathematical, computational and information technology skills.

A. General E	ducation Courses	34	Credits
Language C	ourses	12	credits
BG 1001	English I		3
BG 1002	English II		3
BG 2000	English III		3
BG 2001	English IV		3
Social Scien	ce Courses	6	credits
GE 2202	Ethics		3
MGT 1101	Introduction to Business		3
Humanities	Courses	3	credits
GE 2101	World Civilization		3
Science and	Mathematics Courses	13	credits
BG 0008	General Chemistry Labora	tory	1
BG 1108	General Chemistry		3
BG 1221	Computer Programming		3
BG 2208	Discrete Mathematics		3
GE 1301	Environmental Science		3
R Specialize	od Courses	105	Crodits
B. Specialize			Credits
	eering Courses		Credits credits
Basic Engine	eering Courses		credits
Basic Engine BG 1204	eering Courses Calculus I Calculus II		credits
Basic Engine BG 1204 BG 1205 BG 1211	eering Courses Calculus I Calculus II Physics I		credits 3 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212	eering Courses Calculus I Calculus II Physics I Physics Laboratory I		credits 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213	eering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II		credits 3 3 3 1
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214	eering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II Physics II		2 credits 3 3 3 1 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213	eering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics II		2 credits 3 3 1 3 1 3 1 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207	eering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	20	credits 3 3 1 3 1 3 1 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course	eering Courses Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	20	3 3 3 1 3 1 3 3 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	20	credits 3 3 1 3 1 3 3 credits
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers	20	credits 3 3 3 1 3 1 3 3 credits 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course Core Course CE 3105 EE 3301	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields	20	2 credits 3 3 1 3 1 3 3 credits 3 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105 EE 3301 IE 1110	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields Engineering Materials	20	2 credits 3 3 1 3 1 3 3 credits 3 3 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105 EE 3301 IE 1110 ME 1112	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields Engineering Materials Engineering Laboratory	20	2 credits 3 3 1 3 1 3 3 3 credits 3 3 3 2
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105 EE 3301 IE 1110 ME 1112 ME 1113	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields Engineering Materials Engineering Laboratory Engineering Drawing	20	2 credits 3 3 1 3 1 3 1 3 3 credits 3 3 3 2 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105 EE 3301 IE 1110 ME 1112 ME 1113 ME 2211	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields Engineering Materials Engineering Laboratory Engineering Drawing Engineering Mechanics I	20 21 ning	2 credits 3 3 1 3 1 3 1 3 3 credits 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Basic Engine BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Course CE 3105 EE 3301 IE 1110 ME 1112 ME 1113	Calculus I Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers Microprocessor Programm Using Assembly & C Electromagnetic Fields Engineering Materials Engineering Laboratory Engineering Drawing	20 21 ning ons	2 credits 3 3 1 3 1 3 1 3 3 credits 3 3 3 2 3 3



58 credits **Major Required Courses** Digital Logic Design 3 CE 2704 CE 2705 Digital Logic Design Laboratory 1 Electric Circuits EE 2201 3 EE 2202 Electric Circuits Laboratory 1 EE 2203 Signals and systems 3 Electromechanical Energy EE 2401 3 Conversion Electromechanical Energy EE 2402 Conversion Laboratory 1 EE 2605 **Engineering Electronics** 3 EE 2606 **Engineering Electronics** Laboratory 1 EE 3402 **Electrical Machines** 3 EE 3403 **Electrical Machines Laboratory** 1 EE 3406 **Control Systems** 3 **Electronic Circuit Design** EE 3601 3 **Electronic Circuit Design** EE 3602 Laboratory 1 EE 3606 Electrical Instruments and Measurements 3 EE 3703 Microprocessors 3 EE 4501 **Power System Analysis** 3 EE 4503 Electrical Systems Design 3 EE 4505 **Power System Protection** 3 EE 4506 **High Voltage Engineering** 3 EE 4518 Electrical Power Generation, Transmission and Distribution 3 EE 4705 **Power Electronics** 3 EE 4706 Power Electronics Laboratory 1 EE 4901 **Electrical and Electronic Engineering Project I** 1 EE 4902 **Electrical and Electronic** Engineering Project II 2

Major Elective Courses

6 credits

Students can take major elective courses of 6 credits from the following courses.

BG 4000	Advanced Engineering	
	Mathematics	3
CE 3002	Commercial Application	
	Programming	3
CE 4223	Advanced Computer Networks	3
CE 4224	Telecommunication Networks	
	Laboratory	3
CE 4228	Data Communication and	
	Networking	3

EE 3704	Embedded Systems		3
EE 4201	Network Theory		3
EE 4301	Introduction to Electromag	netic	
	Compatibility		3
EE 4305	Digital Signal Processing		3
EE 4401	Electric Drive		3
EE 4402	Analysis and Design of		
	Electrical Machines		3
EE 4403	Basic Mechatronics		3
EE 4504	Illumination Engineering		3
EE 4600	IC Technology		3
EE 4602	Industrial Instrumentation		
	and Control		3
EE 4606	Industrial Electronics		3
EE 4701	Microprocessor Interface		
	Techniques		3
EE 4903	Advanced Topics in Electric	al	
	and/or Electronic Engineeri	ng	3
EE 4904	Special Problems in Electric	al	
	and/or Electronic Engineeri		3
IE 4201	Engineering Management		3
IE 4203	Engineering Economics		3
MCE 4801	Instrument for Aviation		6
ME 3310	Thermofluids		3
TE 3102	Communication Networks		
	and Transmission Lines		3
TE 4107	Digital Telephony	1	3 3
TE 4112	Optical Communications		
TE 4201	Communication Electronics	; i	3
TE 4202	Communication Electronics	i	
	Laboratory		1
TE 4204	Optoelectronics		3
C. Free Electiv	/e Courses	6 Credits	

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 0008	General Chemistry Laboratory	1
BG 1002	English II	3
BG 1108	General Chemistry	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
IE 1110	Engineering Materials	3
	Total	20

SECOND YEAR

First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2211	Engineering Mechanics I	3
MGT 1101	Introduction to Business	3
	Total	20

Course Code	Course Title	Credits
GE 1301	Environmental Science	3
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laboratory	y 1
EE 2203	Signals and systems	3
EE 2401	Electromechanical Energy	
	Conversion	3
EE 2402	Electromechanical Energy	
	Conversion Laboratory	1
	Total	20

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THIRD YEAR

ļ	H	Iľ	S	t	S	е	m	e	S	t	е	r

Course Code	Course Title C	
CE 3105	Microprocessor Programming	
	Using Assembly & C	3
EE 3402	Electrical Machines	3
EE 3403	Electrical Machines Laboratory	<i>r</i> 1
EE 3601	Electronic Circuit Design	3
EE 3602	Electronic Circuit Design	
	Laboratory	1
EE 3606	Electrical Instruments and	
	Measurements	3
GE 2101	World Civilization	3
	Total	17

FOURTH YEAR First Semester

Course Code	Course Title	Credits
EE 4501	Power System Analysis	. 3
EE 4503	Electrical Systems Design	3
EE 4506	High Voltage Engineering	3
EE 4901	Electrical and Electronic	
	Engineering Project I	1
	One Major Elective Course	3
	One Free Elective Course	3
	Total	16

Second Semester

Course Code	Course Title	Credits
GE 2202	Ethics	. 3
EE 3301	Electromagnetic Fields	3
EE 3406	Control Systems	3
EE 3703 Microprocessors		3
TE 3000	Principles of Communications	3
TE 3002	Communications Laboratory	1
	One Major Elective Course	3
	Total	19

Course Code	Course Title	Credits
EE 4505	Power System Protection	. 3
EE 4518	Electrical Power Generation,	
	Transmission and Distribution	3
EE 4705	Power Electronics	3
EE 4706	Power Electronics Laboratory	1
EE 4902	Electrical and Electronic	
	Engineering Project II	2
	One Free Elective Course	3
	Total	15



DEPARTMENT OF MECHATRONICS ENGINEERING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Have moral and professional ethics.
- 2. Have knowledge in Mechatronics Engineering and able to apply knowledge.
- 3. Capable of conducting research in both the oretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people of all levels.
- 5. Have strong mathematical, computational and information technology skills.

A. General Ec	lucation Courses	
Language Co		34 Credits
	ourses	12 credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Scienc	e Courses	6 credits
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities (Courses	3 credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	13 credits
BG 0008	General Chemistry Labora	tory 1
BG 1108	General Chemistry	3
BG 1221	Computer Programming	3
BG 2208	Discrete Mathematics	3
GE 1301	Environmental Science	3
B. Specialized		106 Credits
Basic Engine	ering Courses	20 credits
BG 1204		
BG 1204	Calculus I	3
BG 1204 BG 1205	Calculus I Calculus II	3 3
BG 1205 BG 1211 BG 1212	Calculus II Physics I Physics Laboratory I	3 3 1
BG 1205 BG 1211 BG 1212 BG 1213	Calculus II Physics I Physics Laboratory I Physics II	3 3 1 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214	Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II	3 3 1 3 1
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207	Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II Engineering Mathematics	3 3 1 3 1 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214	Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II	3 3 1 3 1
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207	Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II Engineering Mathematics Statistics for Engineers	3 3 1 3 1 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses Core Courses	Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	3 3 1 3 1 3 3 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203	Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers for all concentrations Signals and Systems	3 3 1 3 1 3 3 21 credits 17 credits 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203 IE 1110	Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers for all concentrations Signals and Systems Engineering Materials	3 3 1 3 3 21 credits 17 credits 3 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203 IE 1110 ME 1112	Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers for all concentrations Signals and Systems Engineering Materials Engineering Laboratory	3 3 1 3 21 credits 17 credits 3 3 2
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203 IE 1110 ME 1112 ME 1113	Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers i for all concentrations Signals and Systems Engineering Materials Engineering Laboratory Engineering Drawing	3 3 1 3 3 21 credits 17 credits 3 3 2 3
BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses EE 2203 IE 1110 ME 1112	Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers for all concentrations Signals and Systems Engineering Materials Engineering Laboratory	3 3 1 3 21 credits 17 credits 3 3 2



*Select ONLY ONE Concentrations:Core Courses for Concentration in Automation 4 CreditsEE 3402Electrical MachinesEE 3403Electrical Machines Laboratory1				
Core Courses ME 3501	for Concentration in Marine Naval Architecture and Ship Construction)	4 Credits	
	Construction		4	
Major Requir	ed Courses	59	credits	
Major Requir	ed Courses			
for All Concer	ntration	41	credits	
	<u> </u>		2	
CE 2704	Digital Logic Design		3	
CE 2705	Digital Logic Design Labora	tor		
EE 2201	Electric Circuits		3	
EE 2202	Electric Circuits Laboratory		1	
EE 2401	Electromechanical Energy			
	Conversion		3	
EE 2402	Electromechanical Energy			
	Conversion Laborator		1	
EE 2605	Engineering Electronics		3	
EE 2606	Engineering Electronics			
	Laboratory		1	
EE 3406	Control Systems		3	
EE 4705	Power Electronics		3	
EE 4706	Power Electronics Laborator	ry	1	
IE 4100	Manufacturing Processes		3	
MCE 2101	Fundamentals of Mechatror	nics		
	Engineering		3	
MCE 2102	Mechatronics Engineering			
	Laboratory I		1	
MCE 4103	Mechatronics Engineering			
	Laboratory II		1	
MCE 4901	Mechatronics Engineering			
	Project I		1	
MCE 4902	Mechatronics Engineering			
	Project II		2	
ME 3110	Mechanics of Material		3	
ME 3311	Pneumatic and Hydraulic			
	Systems		3	
ME 3312	Pneumatic and Hydraulic		5	
	Systems Laboratory		1	
	Systems Euboratory		1	

CE 4201	Image Processing and	
	Computer Vision	
EE 3405	Digital Control Systems	
EE 3703	Microprocessor	
MCE 4101	Introduction to Robotics	
MCE 4102	Introduction to Industrial	
	Automation	
ME 3120	Mechanics of Machinery	
Major Requ	ired Courses for	
Concentrat	ion in Marine 18 Cre	d
ME 3401	Marine Electrical Powering	
	and System	
ME 4410	Thermodynamics	
ME 4411	Heat Transfer	
ME 4501	Ship Dynamics	
ME 4502	Marine Propulsion and	
	Machinery System	
ME 4503	Ship Operation and Maintenance	
6 credits fro	om the following courses.	
CE 3002	Commercial Application	
	Programming	
CE 4221	Network Applications and	
CE 4221	Network Applications and Technology	
CE 4221 CE 4224		
	Technology	
	Technology Telecommunication Network Laboratory Computer and Network Security	
CE 4224	Technology Telecommunication Network Laboratory	
CE 4224 CE 4225	Technology Telecommunication Network Laboratory Computer and Network Security	
CE 4224 CE 4225 EE 3301	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506 EE 4507	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4506	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and	
CE 4224 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4503 EE 4506 EE 4507 EE 4602	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control	
CE 4224 CE 4225 EE 3301 EE 3606 EE 3704 EE 4305 EE 4503 EE 4503 EE 4506 EE 4507 EE 4502 EE 4602 EE 4603	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control Industrial Electronics	
CE 4224 EE 3301 EE 3606 EE 3704 EE 4305 EE 4501 EE 4503 EE 4503 EE 4506 EE 4507 EE 4602	Technology Telecommunication Network Laboratory Computer and Network Security Electromagnetic Fields Electrical Instruments and Measurements Embedded Systems Digital Signal Processing Power System Analysis Electrical System Design High Voltage Engineering Power Plant Engineering Industrial Instrumentation and Control	



IE 4101	Manufacturing and Information	
	Technology	3
IE 4201	Engineering Management	3
IE 4203	Engineering Economics	3
MCE 4801	Instrument for Aviation	6
MCE 4903	Advanced Topics in	
	Mechatronics Engineering	3
MCE 4904	Special Problems in	
	Mechatronics Engineering	3
ME 4010	Machine Design	3
ME 4310	Mechanical Vibration	3
ME 4412	Internal Combustion Engines	3
ME 4504	Fluid Mechanics	3
ME 4505	Ship Design	3
TE 3000	Principles of Communications	3

Remark: Students can also select major required courses of other majors as their major elective course.

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





STUDY PLAN

First Year First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

Second Year

First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborator	y 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
MCE 2101	Fundamental of Mechatronics	
	Engineering	3
MCE 2102	Fundamental of Mechatronics	
	Engineering Laboratory I	1
ME 2211	Engineering Mechanics I	3
	Total	21

Second Semester

Course Code	Course Title	Credits
BG 0008	General Chemistry Laboratory	1
BG 1002	English II	3
BG 1108	General Chemistry	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
IE 1110	Engineering Materials	3
	Total	20

Course Title	Credits
English IV	. 3
Statistics for Engineers	3
Signals and Systems	3
Electromechanical Energy	
Conversion	3
Electromechanical Energy	
Conversion Laboratory	1
Engineering Electronics	3
Engineering Electronics	
Laboratory	1
Engineering Mechanics II	3
Total	20
	English IV Statistics for Engineers Signals and Systems Electromechanical Energy Conversion Electromechanical Energy Conversion Laboratory Engineering Electronics Engineering Electronics Laboratory Engineering Mechanics II



Third Year First Semester

	Total	16-17
EE 3703	Microprocessor	3
EE 3403	Electrical Machines Laboratory	1
EE 3402	Electrical Machines	3
OR For Conce	ntration in Automation	
ME4410	Thermodynamics	3
ME3401	Marine Electrical Powering and System	3
For Concentra ME3401	ation in Marine	
	Systems Laboratory	1
ME 3312	Pneumatic and Hydraulic	
	Systems	3
ME 3311	Pneumatic and Hydraulic	
ME 3110	Mechanics of Materials	3
EE 3406	Control Systems	3
Course Code	Course Title	Credits

Fourth Year First Semester

Course Code	Course Title	Credits
GE 2202	Ethics	3
MCE 4103	Mechatronics Engineering	
	Laboratory II	1
MCE 4901	Mechatronics Engineering	
	Project I	1
MGT 1101	Introduction to Business	3
	One Major Elective Course	3
	One Free Elective Course	3
For Concentr	ation in Marine	
ME 4501	Ship Dynamics	3
OR For Conce	entration in Automation	
MCE 4102	Introduction to Industrial	
	Automation	3
	Total	17

Second Semester

Course Code	Course Title	Credits
GE 1301	Environmental Science	. 3
GE 2101	World Civilization	3
IE 4100	Manufacturing Processes	3
For Concentra	ation in Marine	
ME3501	Nerval Architecture and	
	Ship Construction	4
ME4411	Heat Transfer	3
OR For Conce	ntration in Automation	
CE 4201	Image Processing and	
	Computer Vision	3
EE 3405	Digital Control Systems	3
ME 3120	Mechanics of Machinery	3
	Total	16-18

Course Code	Course Title	Credits
EE 4705	Power Electronics	3
EE 4706	Power Electronics Laboratory	1
MCE 4902	Mechatronics Engineering	
	Project II	2
	One Major Elective Course	3
	One Free Elective Course	3
For Concentra	ation in Marine	
ME 4502	Marine Propulsion and	
	Machinery Systems	3
ME 4503	Ship Operation &	
	Maintenanace	3
OR For Conce	ntration in Automation	
MCE 4101	Introduction to Robotics	3
	Total	15-18



DEPARTMENT OF TELECOMMUNICATION AND ELECTRONIC ENGINEERING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Have moral and professional ethics.
- 2. Have knowledge in Telecommunication and Electronic Engineering and able to apply knowledge and skills.
- 3. Capable of conducting research in both theoretical and practical aspects.
- Have good personality, good social manners and able to appropriately work with people of all levels.
- 5. Have strong mathematical, computational and information technology skills.

A. General Ec	ducation Courses	34 Credits
Language Co	ourses	12 credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Science	e Courses	6 credits
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities (Courses	3 credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	13 credits
BG 0008	General Chemistry Labora	atory 1
BG 1108	General Chemistry	3
BG 1221	Computer Programming	3
BG 2208	Discrete Mathematics	3
GE 1301	Environmental Science	3
D. Consisting	1 Courses	107 Credits
B. Specialized		107 Credits
		20 11
basic Engine	ering Courses	20 credits
BG 1204	Calculus I	20 credits
BG 1204	Calculus I Calculus II	3
BG 1204 BG 1205 BG 1211	Calculus I Calculus II Physics I	3 3
BG 1204 BG 1205 BG 1211 BG 1212	Calculus I Calculus II Physics I Physics Laboratory I	 3 3 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213	Calculus I Calculus II Physics I Physics Laboratory I Physics II	 3 3 1 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214	Calculus I Calculus II Physics I Physics Laboratory I Physics II Physics Laboratory II	3 3 1 3 1 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213	Calculus I Calculus II Physics I Physics Laboratory I Physics II	3 3 1 3 1 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	3 3 1 3 1 3 1 3 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers	3 3 1 3 1 3 1 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network	3 3 1 3 1 3 3 20 credits
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming	3 3 1 3 1 3 3 20 credits
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming Control Systems	3 3 1 3 1 3 3 20 credits
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming	3 3 1 3 1 3 3 20 credits
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207 EE 3406	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming Control Systems	3 3 1 3 1 3 1 3 3 20 credits 3 3 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207 EE 3406 EE 4305	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming Control Systems Digital Signal Processing	3 3 1 3 1 3 1 3 3 20 credits 3 3 3 3 3 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207 EE 3406 EE 4305 IE 1110	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming Control Systems Digital Signal Processing Engineering Materials	3 3 1 3 1 3 1 3 3 20 credits 3 3 3 3 3 3 3 3
BG 1204 BG 1205 BG 1211 BG 1212 BG 1213 BG 1214 BG 2207 BG 2209 Core Courses CE 4207 EE 3406 EE 4305 IE 1110 ME 1112	Calculus I Calculus II Physics I Physics Laboratory I Physics Laboratory II Engineering Mathematics Statistics for Engineers System and Network Programming Control Systems Digital Signal Processing Engineering Materials Engineering Laboratory	3 3 1 3 1 3 1 3 3 20 credits 3 3 3 3 3 2



Major Requir	ed Courses e	61 credits
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborate	ory 1
CE 4224	Telecommunication Network	<s< td=""></s<>
	Laboratory	1
CE 4228	Data Communication and	
	Networking	3
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
EE 2203	Signals and Systems	3
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
EE 3301	Electromagnetic Fields	3
EE 3601	Electronic Circuit Design	3
EE 3602	Electronic Circuit Design	
	Laboratory	1
EE 3606	Electrical Instruments and	
	Measurements	3
EE 3703	Microprocessors	3
TE 3000	Principles of Communication	ns 3
TE 3002	Communications Laboratory	1
TE 3102	Communication Networks	
	and Transmission Lines	3
TE 3301	Radio Wave Propagation	3
TE 4105	Microwave Engineering	3
TE 4111	Antenna Engineering	3
TE 4112	Optical Communications	3
TE 4113	Digital Communication	3
TE 4201	Communication Electronics	3
TE 4202	Communication Electronics	
	Laboratory	1
TE 4901	Telecommunication and	
	Electronic Engineering Proje	ctl 1
TE 4902	Telecommunication and	
	Electronic Engineering Proje	ct II 2

take major elective courses of 6 the following courses. Advanced Engineering Mathematics Data Structure and Algorithms	
Advanced Engineering Mathematics	
Mathematics	
Mathematics	
Data Structure and Algorithms	-
Commercial Application	
Programming	
Network Applications and	
Technology	3
Advanced Computer Networks	1
Mobile and Wireless Networks	1
Electromechanical Energy	
Conversion	3
Electromechanical Energy	
Conversion Laboratory	1
Electrical Systems Design	
Engineering Management	3
Engineering Economics	
Instrument for Aviation	3
Digital Telephony	-
Wireless Communications and	
Cellular Systems	
Noise in Electronic Systems	
Optoelectronics	
Advanced Topics in	
Telecommunication	13
and Electronic Engineering	
Special Problems in	
Telecommunication	5
and Electronic Engineering	
Internetworking Workshop I	5
Internetworking Workshop II	3
	Network Applications and Technology Advanced Computer Networks Mobile and Wireless Networks Electromechanical Energy Conversion Electromechanical Energy Conversion Laboratory Embedded Systems Electrical Systems Design Engineering Management Engineering Economics Instrument for Aviation Digital Telephony Wireless Communications and Cellular Systems Noise in Electronic Systems Optoelectronics Advanced Topics in Telecommunication and Electronic Engineering Special Problems in Telecommunication and Electronic Engineering Internetworking Workshop I

Students can also select major required courses of other majors as their major elective courses.

C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1221	Computer Programming	3
ME 1112	Engineering Laboratory	2
ME 1113	Engineering Drawing	3
	Total	18

SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
BG 2207	Engineering Mathematics	3
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2211	Engineering Mechanics I	3
MGT 1101	Introduction to Business	3
	Total	20

Second Semester

Course Code	Course Title	Credits
BG 0008	General Chemistry Laboratory	1
BG 1002	English II	3
BG 1108	General Chemistry	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
IE 1110	Engineering Materials	3
	Total	20

Course Code	Course Title	Credits
BG 2001	English IV	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laboratory	y 1
EE 2203	Signals and systems	3
GE 1301	Environmental Science	3
GE 2101	World Civilization	3
	Total	19



THIRD YEAR First Semester

Course Code	Course Title	Credits
EE 3301	Electromagnetic Fields	3
EE 3601	Electronic Circuit Design	3
EE 3602	Electronic Circuit Design	
	Laboratory	1
EE 3606	Electrical Instruments and	
	Measurements	3
EE 3703	Microprocessors	3
GE 2202	Ethics	3
	One Free Elective Course	3
	Total	19

FOURTH YEAR

Course Code	Course Title	Credits
CE 4224	Telecommunication Networks	
	Laboratory	1
CE 4228	Data Communication and	
	Networking	3
EE 4305	Digital Signal Processing	3
TE 4105	Microwave Engineering	3
TE 4113	Digital Communication	3
TE 4901	Telecommunication and	
	Electronic Engineering Project	1 1
	One Major Elective Course	3
	Total	17

Second Semester

Course Code	Course Title	Credits
CE 4207	System and Network	
	Programming	3
EE 3406	Control Systems	3
TE 3000	Principles of Communications	3
TE 3002	Communications Laboratory	1
TE 3102	Communication Networks and	1
	Transmission Lines	3
TE 3301	Radio Wave Propagation	3
	One Free Elective Course	3
	Total	19

Second Semester

Course Code	Course Title	Credits
TE 4111	Antenna Engineering	3
TE 4112	Optical Communication	3
TE 4201	Communication Electronics	3
TE 4202	Communication Electronics	
	Laboratory	1
TE 4902	Telecommunication and	
	Electronic Engineering Project	11 2
	One Major Elective Course	3
	Total	15



Assumption University of Thailand | Vincent Mary School of Engineering

BACHELOR OF ENGINEERING PROGRAM IN AERONAUTIC ENGINEERING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Be morally sound, committed to acting justly and open to further growth
- Have aeronautic knowledge both engineering and non-engineering
- · Have aircraft maneuver skills
- Be open-minded with strong logical thinking problem-solving
- Have communication skills

Course	Commercial Pilot	Aircraft Maintenance Engineer
General Education Courses	30	30
Specialized Courses		
- Basic Engineering Courses	39	39
- Major Required Courses	55	63
- Major Elective Courses	17	9
Free Electives Courses	6	6
Total Credits	147	147

A. General Edu Language Cou	30 Credits 12 credits	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Science	9 credits	
GE 1301	Environmental Science	3
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities Co	3 credits	
GE 2101	World Civilization	3
Science and N	6 credits	
BG 1220	Fundamentals of Comput	ter
	Processing	3
BG 2208	Discrete Mathematics	3

B. Specialize Basic Engine	ed Courses 1 eering Courses	11 Credits 39 credits
BG 1204	Calculus I	3
BG 1204	Calculus II	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laborat	ory 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 1113	Engineering Drawing	3
ME 2210	Engineering Mechanics	3
MCE 2101	Fundamentals of Mechatron	ics
	Engineering	3
MCE 2102	Mechatronics Engineering	
	Laboratory I	1



Major Required Courses Students can select Commercial Pilot, or Aircraft Maintenance Engineer as their major.

Commercial Pilot		5 credits	Aircraft Ma	intenance Engineer 63	r 63 credits	
AE 1100	Core Flying: Single-Engine	-	AE 1910	Problem-based Training in		
	Flight - Ground	3		Aircraft Maintenance I	1	
AE 1200	Core Flying: Single-Engine	5	AE 1911	Problem-based Training in		
112 1200	Flight - Flight	2		Aircraft Maintenance II	1	
AE 2100	Basic Flying: Single/Multi-	2	AE 1920	Problem-based Training in Aircra	aft	
AL 2100	Engine - Ground	3		Maintenance III	1	
AE 2200	Basic Flying: Single/Multi-	5	AE 2501	Maintenance English I	1	
AL 2200	Engine - Flight I	1	AE 2502	Maintenance English II	1	
AE 2201	Basic Flying: Single/Multi-		AE 2700	Fundamental Aircraft: Propulsion		
AL 2201	Engine - Flight II	1		Theory	2	
AE 2202	Basic Flying: Multi-Engine	1	AE 2701	Fundamental Aircraft:	-	
AE ZZUZ	Operations	2	112 27 01	Aircraft Engine	3	
AE 2203	Basic Flying: Operational	Z	AE 2702	Fundamental Aircraft:	5	
AE 2205	Procedures	1	//L 2/02	Aerodynamics	2	
45 2200		1	AE 2703	Fundamental Aircraft:	2	
AE 2300	Basic Flying: Flight		AL 2705	Aircraft Structure	3	
45 2401	Communications	1	AE 2704	Fundamental Aircraft:	2	
AE 2401	Basic Flying: Air Law	3	AL 2704	Aircraft Material	3	
AE 3300	Intermediate Flying: Route	2	AE 2705	Fundamental Aircraft:	5	
15 2201	Manual and Pilot Applications	3	AL 2705	Aircraft Performance	3	
AE 3301	Intermediate Flying:	2	AE 2901	Fundamental Aircraft:	2	
15 2202	General Navigation	3	AL 2901	Practical Verification	1	
AE 3302	Intermediate Flying: Flight	2	AE 3310	Aircraft Maintenance:	1	
15 0000	Performance and Planning I	3	AE 3510	Maintenance Human Factor	1	
AE 3303	Intermediate Flying: Flight	-	AE 3311	Aircraft System:	1	
	Performance and Planning II	3	AE 3311		2	
AE 3304	Intermediate Flying: Meteorolo		AE 3312	Technical Document System Aircraft System: Logistics	3	
AE 3400	Intermediate Flying: Advanced			Aircraft System: Aviation Acts	Z	
	Aerodynamics	3	AE 3411		2	
AE 3500	Intermediate Flying: Airframes		AE 3511	and Airworthiness Regulations	3	
	and Aircraft Systems	3	AE 3511	Aircraft System:	1	
AE 3501	Intermediate Flying: Power		45 3513	Aircraft Communications	1	
	Plants and Instrumentations	3	AE 3512	Aircraft System: Ground Support		
AE 3502	Intermediate Flying:		45 3513	Equipment	2	
	Radio Navigation	3	AE 3513	Aircraft System: Non-Destructive		
AE 3700	Commercial Flight I	1	45 2710	Inspection	3	
AE 3701	Commercial Flight II	1	AE 3710	Aircraft Maintenance:	2	
AE 3702	Commercial Flight III	1	15 2744	Aircraft Maintenance I	3	
AE 3703	Commercial Flight IV	1	AE 3711	Aircraft Maintenance:	2	
AE 3900	Seminar in International and		45 0740	Aircraft Maintenance II	3	
	Domestic Navigation	3	AE 3712	Aircraft System: Hydraulic	-	
AE 4300	Intermediate Flying:		45 3743	and Pneumatic System	3	
	Crew Resources Management		AE 3713	Aircraft System: Landing Gear	-	
	and Flight Safety	1	45 974 5	and Brake System	3	
AE 4301	Intermediate Flying: Human		AE 3714	Aircraft System: Fuel System	3	
	Performance and Limitations	3	AE 3715	Aircraft System: Powerplant	3	



AE 3716	Aircraft System: Stability and	
	Weight & Balance System	3
AE 3800	Aircraft System: Aircraft	
	Electrical System	3
AE 3901	Aircraft Maintenance:	
	Practical Verification	1
AE 4901	Aircraft System:	
	Practical Verification	1

EE 4403 **Basic Mechatronics** 3 EE 4503 Electrical Systems Design 3 EE 4602 Industrial Instrumentation and Control 3 TE 4201 Communication Electronics 3 TE 4202 Communication **Electronics Laboratory** 1

Major Elective Courses

1. Students of all majors can select the following courses as major elective courses according to the number of required credits.

1. Commercial Pilot	17 credits
2. Aircraft Maintenance Engineer	9 credits

2. Students can also select major required courses of other majors as their major elective courses.

AE 1101	Theory of Single-Engine Flight	3
AE 2402	English for Aviation	3
AE 3401	Avionics	3
AE 4700	Commercial Pilot License	
	Instructor	3
AE 4701	Commercial Pilot License	
	Instructor: Fight I	2
AE 4702	Commercial Pilot License	
	Instructor: Flight II	2
AE 4904	Special Problems in	
	Aeronautic Engineering I	3
AE 4905	Special Problems in	
	Aeronautic Engineering II	2
AE 4906	Special Problems in	
	Aeronautic Engineering III	1
AE 4930	Advanced Topics in	
	Aeronautic Engineering I	3
AE 4931	Advanced Topics in	
	Aeronautic Engineering II	2
AE 4932	Advanced Topics in	
	Aeronautic Engineering III	1
CE 2703	Introduction to	
	Computer Systems	3
CE 4227	Mobile and Wireless Networks	3
EE 3301	Electromagnetic Fields	3
EE 3404	Feedback Control Systems	3
EE 3601	Electronic Circuit Design	3
EE 3602	Electronic Circuit	
	Design Laboratory	1
EE 4305	Digital Signal Processing	3

C. Free Elective Courses	
Credits	

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

6



STUDY PLAN FOR COMMERCIAL PILOT

FIRST YEAR First Semester

Code	Subjects	credits
BG 1001	English I	3
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1220	Fundamental of Computer	
	Processing	3
ME 1113	Engineering Drawing	3
	Total	16

SECOND YEAR First Semester

Code	Subjects	<u>cred</u> its
BG 2000	English III	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laboratory	1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
MCE 2101	Fundamental of	
	Mechatronics Engineering	3
MCE 2102	Machatronics Engineering	
	Laboratory I	1
	Total	18

Second Semester

Code	Subjects	credits
BG 1002	English II	3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
	Two Free Elective Course	6

	Total	19

Second Semester

Code	Subjects	credits
BG 2001	English IV	3
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
ME 2210	Engineering Mechanics	3
	Total	16

Summer Session of Second Year

Code	Subjects	credits
AE1100	Core Flying: Single-Engine	
	Flight - Ground	3
AE1200	Core Flying: Single-Engine	
	Flight - Flight	2
	Major Elective Course (s)	3
	Total	8



THIRD YEAR First Semester

Code	Subjects	credits
GE 2101	World Civilization	3
AE 2100	Basic Flying: Single/	
	Multi-Engine - Ground	3
AE 2200	Core Flying: Single/	
	Multi-Engine - Flight I	1
AE 2203	Basic Flying: Operational Proced	ures 1
AE 2300	Basic Flying: Flight Communicati	ons 1
AE 3302	Intermediate Flying: Flight	
	Performance and Planning I	3
AE 3400	Intermediate Flying: Advanced	
	Aerodynamics	3
AE 3500	Intermediate Flying: Airframes	
	and Aircraft Systems	3
	Total	15

Summer Session of Third Year

Code	Subjects cre	edits
AE 3300	Intermediate Flying:	
	Route Manual and Pilot Application	ns 3
AE 4300	Intermediate Flying: Crew	
	Resources Management and	
	Flight Safety	1
	Total	4

Code	Subjects	credits
AE 2201	Basic Flying: Single/	
	Multi-Engine - Flight II	1
AE 2202	Basic Flying: Multi- Engine	
	Operations	2
AE 2401	Basic Flying: Air Law	3
AE 3301	Intermediate Flying:	
	General Navigation	3
AE 3303	Intermediate Flying: Flight	
	Performance and Planning II	3
AE 3304	Intermediate Flying: Meteorolog	у З
AE 3501	Intermediate Flying: Power Plant	ts
	and Instrumentations	3
	Total	18



FOURTH YEAR First Semester

Code	Subjects	credits
AE3502	Radio Navigation	3
AE4301	Intermediate Flying: Human	
	Performance and Limitations	3
AR3900	Seminar in International and	
	Domestic Navigation	3
AE 3700	Commercial Flight I	3
AE 3701	Commercial Flight II	3
	Major Elective Course (s)	6
	Total	21

Code	Subjects	credits
GE1301	Environmental Science	3
AE 3702	Commercial Flight III	3
AE 3703	Commercial Flight IV	3
	Major Elective Course (s)	8
	Total	17





STUDY PLAN FOR AIRCRAFT MAINTENANCE ENGINEER

FIRST YEAR

First Semester

Code	Subjects	credits
BG 1001	English I	
BG 1204	Calculus I	3
BG 1211	Physics I	3
BG 1212	Physics Laboratory I	1
BG 1220	Fundamental of Computer	
	Processing	3
ME 1113	Engineering Drawing	3
AE 1910	Problem-based Training in	
	Aircraft Maintenance I	1
	Total	17

SECOND YEAR First Semester

Code	Subjects	credits
BG 2000	English III	3
BG 2209	Statistics for Engineers	3
CE 2704	Digital Logic Design	3
CE 2705	Digital Logic Design Laboratory	y 1
EE 2201	Electric Circuits	3
EE 2202	Electric Circuits Laboratory	1
AE 1920	Problem-based Training in	
	Aircraft Maintenance III	1
AE 2701	Fundamental Aircraft:	
	Aircraft Engine	3
	Total	18

Second Semester

Code	credits	
BG 1002	English II	- 3
BG 1205	Calculus II	3
BG 1213	Physics II	3
BG 1214	Physics Laboratory II	1
BG 2208	Discrete Mathematics	3
	Two Free Elective Course	6
AE 1911	Problem-based Training in	
	Aircraft Maintenance II	1
AE 2700	Fundamental Aircraft:	
	PropulsionTheory	2
	Total	22

Code	Subjects	credits
BG 2001	English IV	3
GE 2202	Ethics	3
ME 2210	Engineering Mechanics	3
EE 2605	Engineering Electronics	3
EE 2606	Engineering Electronics	
	Laboratory	1
AE 2501	Maintenance English I	1
AE 2703	Fundamental Aircraft:	
	Aircraft Structure	3
AE 2704	Fundamental Aircraft:	
	Aircraft Material	3
	Total	20



THIRD YEAR First Semester

Code	Subjects	credits
MCE 2101	Fundamentals of Mechatronics	
	Engineering	3
MCE 2102	Mechatronics Engineering	
	Laboratory I	1
MGT 1101	Introduction to Business	3
AE 2502	Maintenance English II	1
AE 2702	Fundamental Aircraft:	
	Aerodynamics	2
AE 2705	Fundamental Aircraft:	
	Aircraft Performance	3
AE 3310	Aircraft Maintenance:	
	Maintenance Human Factor	1
AE 3710	Aircraft Maintenance:	
	Aircraft Maintenance I	3
	Major Elective	3
	Total	20

Second Ser	mester	
Code	Subjects	credits
AE 2901	Fundamental Aircraft:	
	Practical Verification	1
AE 3311	Aircraft System:	
	Technical Document System	3
AE 3312	Aircraft System: Logistics	2
AE 3411	Aircraft System: Aviation Acts ar	nd
	Airworthiness Regulations	3
AE 3511	Aircraft System:	
	Aircraft Communication	1
AE 3711	Aircraft Maintenance:	
	Aircraft Maintenance II	3
AE 3712	Aircraft System: Hydraulic and	
	Pneumatic System	3
AE 3713	Aircraft System: Landing Gear	
	and Brake System	3
	Total	19

FOURTH YEAR First Semester

Code	Subjects	credits
GE 2101	World Civilization	3
AE 3714	Aircraft System: Fuel System	3
AE 3715	Aircraft System: Powerplant	3
AE 3800	Aircraft System:	
	Aircraft Electrical System	3
AE 3901	Aircraft Maintenance:	
	Practical Verification	1
	Major Elective Course (s)	3
	Free Elective Course (s)	3
	Total	19

Code	Subjects	credits
GE 1301	Environmental Science	3
AE 3512	Aircraft System:	
	Ground Support Equipment	2
AE 3513	Aircraft System:	
	Non-Destructive Inspection	3
AE 3716	Aircraft System: Stability and	
	Weight & Balance System	3
AE 4901	Aircraft System:	
	Practical Verification	1
	Major Elective	3
	Free Elective	3
	Total	18





ALBERT LAURENCE SCHOOL OF COMMUNICATION ARTS

Curriculum Structure

COURSES	AD	NM	PC	PR	VCD	CGI
 A. General Education Courses Language Courses Social Science Courses Humanities Courses Science and Mathematics Courses 	36 15 12 3 6	36 15 12 3 6	36 15 12 3 6	36 15 12 3 6	31 12 7 9 3	31 12 7 9 3
 B. Specialized Courses Core Courses Major Required Courses Major Elective Courses or - Minor Courses* 	96 39 39 18 18	100 39 43 18 18	96 39 39 18 18	97 39 40 18 18	109 45 49 15	109 45 49 15
C. Free Electives Courses	6	6	6	6	6	6
Total Credits	138	142	138	139	146	146



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Communication Arts in Advertising upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative grade point average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have participated in 8 sessions of the CA Seminar Series (Only for AD, NM, PC and PR)
- Have obtained library and financial clearance from the University
- Have demonstrated good behavior and discipline



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DEPARTMENT OF ADVERTISING

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge, skills, and practical experiences in the field of advertising, communication arts, management and business and able to work in the field of advertising business and communication in the society.
- Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- Have a good personality with good social manners and able to appropriately work with people at all levels.
- Able to continuously develop themselves academically and professionally.
- Have knowledge and ability to use basic mathematics to interpret data and analyze information for planning, management, and development.
- Make efficient use of information technology and foreign languages, especially English and able to communicate cross-culturally.
- Have creativity and communication skills for presentation.

A. General E	ducation Courses	36 Credits
Language C	15 Credits	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For international Students)	3
	(i of international stadents)	5
Social Scien		12 Credits
Social Scient		
	ce Courses	
	ce Courses Macro-environment, Media	12 Credits
CA 1012	ce Courses Macro-environment, Media Effect and Media Literacy	12 Credits
CA 1012	ce Courses Macro-environment, Media Effect and Media Literacy Psychology for Persuasive	12 Credits
CA 1012 CA 2016	ce Courses Macro-environment, Media Effect and Media Literacy Psychology for Persuasive Communication	12 Credits

Humanities	3 Credits				
GE 1102	Introduction to Philosophy	3			
Science and	Mathematics Courses	6 Credits			
BG 1301	Fundamentals of Statistics	3			
GE 1301	Environmental Science	3			
B. Specialize Core Course		96 Credits 39 Credits			
CA 1001	Introduction to Communica	ition 3			
CA 1002	Introduction to Photograph	у			
	and Cinematography	3			
CA 1006	Introduction to Journalism				
	and Mass Communication	3			
CA 1017	Introduction to Creative				
c	Communication Design	3			
CA 2004	Introduction to Advertising Introduction to Public Relati	3 ions 3			
CA 2005 CA 2007	Introduction to Public Relation	ions 3			
CA 2007	and Broadcasting	3			
CA 2015	Introduction to Performance				
0/12015	Communication	3			
CA 2018	Consumer Insight	3			
MGT 1101	Introduction to Business	3			
MGT 2900	Principles of Management	3			
MKT 2280	Principles of Marketing	3			
NM 3401	Production for				
	Communication Tools	3			
Major Requ	ired Courses	39 Credits			

AD 3101	Principles of Marketing	
	Communication	3
AD 3102	Advertising Media Planning	3
AD 3103	Advertising Creative Strategy	3
AD 3112	Brand Communication	3
AD 3119	Advertising and Marketing	
	Communication Research	3
AD 4100	Seminar in Advertising	3
AD 4101	Advertising Workshop I	3
AD 4102	Advertising Workshop II	3
AD 4104	Advertising and Marketing	
	Communication Management	3
AD 4115	Campaign Planning and	
	Management	3
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia Tools	3
CA 3011	Communication Arts Research	3



Major Elective Courses 18 Credits

Students can choose courses to fulfill 18 credits from the following courses and/or choose minor courses of other departments.

AD 3106	Art Direction	3
AD 3114	Interactive Advertising	
	and Marketing Communication	3
AD 3113	Customer Relationship	
	Management	3
AD 3115	International Communication	
	Campaign	3
AD 3116	Account Planning	3
AD 3117	Advertising and Popular Culture	3
AD 3118	Selected Topics in Advertising	3
AD 4107	Basic Copywriting (Thai)	3
or AD 4108	Basic Copywriting (English)	
AD 4103	Creative Media Management	3
AD 4111	Advanced Brand Communication	3
AD 4122	Direct Communication	
	Campaign Management	3
AD 4123	Marketing Channel	
	Communication	3

Students can take New Media Communication, Performance Communication, Public Relations courses, as major elective courses upon completion of the prerequisites (if any).

Minor Courses 18 Credits Students can choose one of the following group as the minor courses.

New Media Communication

Minor Required Courses		9 Credits
NM 3402	Film and Time-based Media	
	Production	3
NM 3404	Multimedia Editing	3
NM 4406	Broadcast Media	
	Production and Directing	3

Minor Elective Courses

9 Credits

Students can take minor elective courses of 9 credits from the Department of New Media Communication upon completion of the prerequisites (if any).

Performance Communication Minor Required Courses		9 Credits
PC 3305	Script Writing and Analysis	3
PC 3308	Performance/ Event Criticism	3
PC 4311	Production Management	
	for Performance	3
Minor Elect	tive Courses	9 Credits

Students can take minor elective courses of 9 credits from the Department of Performance Communication upon completion of the prerequisites (if any).

Public Relations

Minor Required Courses		9 Credits
PR 3202	Strategic Public Relations Campaign Planning and	
	Evaluation	3
PR 3214	Organization Communicatior	n 3
PR 4201	Corporate Communication	
	and Stakeholder Relations	3
Minor Elec	tive Courses	9 Credits
Students c	an take minor elective courses o	f 9

credits from the Department of Public Relation upon completion of the prerequisites (if any).

C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semest	er	
Course Code	e Course TitleCredits	
BG 1001	English I	3
CA 1001	Introduction to Communication	3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For international Students)	3
MGT 1101	Introduction to Business	3
	Total	18

Second Semester

Course Code	Course Title Credits	
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1007	Introduction to Creative	
	Communication	3
GE 1102	Introduction to Philosophy	3
	Total	18

SECOND YEAR First Semester

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Course	Code	Course TitleCredits
Course	Coue	course milecreans

BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2004	Introduction to Advertising	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

e Course TitleCredits	
English IV	3
Introduction to Public Relations	3
Introduction to New Media	
Broadcasting	3
Utilization of Multimedia Tools	3
Consumer Insight	3
Ethics	3
Total	18
	Introduction to Public Relations Introduction to New Media Broadcasting Utilization of Multimedia Tools Consumer Insight Ethics



3

3

3

3

3

3

18

THIRD YEAR First Semester

Course Code Course TitleCredits AD 3101 Principles of Marketing Communication AD 3102 Advertising Media Planning AD 3103 Advertising Creative Strategy Brand Communication AD 3112 CA 3011 **Communication Arts Research** NM 3401 Production for **Communication Tools** Total

Second Semester

Course Code	Course TitleCredits	
AD 3119	Advertising and Marketing	
	Communication Research	3
AD 4100	Seminar in Advertising	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

FOURTH YEAR **First Semester**

Course Cod	e Course Title Credits	
AD 4101	Advertising Workshop I	3
AD 4104	Advertising and Marketing	
	Communication Management	3
CA 4010	Law and Ethical Concerns	
	for Communication	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	15

Course Code	Course TitleCredits	
AD 4102	Advertising Workshop II	3
AD 4115	Campaign Planning and	3
	Management	
MGT 2900	Principles of Management	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Total	15

NM I NEW MEDIA



DEPARTMENT OF NEW MEDIA COMMUNICATION

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge,skills, and practical experiences in the field of new media communication, communication arts, management and business and able to work in the field of new media communication and communication in the society.
- Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- Have a good personality with good social manners and able to appropriately work with people at all levels.

A. General	Education Courses	36 Credits
Language C	Courses	15 Credits
DC 1001	r	
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403 or GE 1404	Communication in Thai Thai Culture and Traditions	3
or GE 1404	(For international Students)	3
Social Scien	ice Courses	12 Credits
CA 1012	NA	
CA 1012	Macro-environment, Media	2
CA 2016	Effect and Media Literacy	3
CA 2016	Psychology for Persuasive Communication	3
CA 4010	Law and Ethical Concerns	3
CA 4010	for Communication	3
GE 2202	Ethics	3
GE 2202	Ethics	5
Humanities Courses		3 Credits
GE 1102	Introduction to Philosophy	3
Science and	Mathematics Courses	6 Credits
BG 1301	Fundamentals of Statistics	3
GE 1301	Environmental Science	3
		100 Credits
Core Course	25	39 Credits
CA 1001	Introduction to Communica	tion 3
CA 1002	Introduction to Photograph	v
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public Relati	ons 3
CA 2007	Introduction to New Media	
	and Broadcasting	3
CA 2015	Introduction to Performance	2
	Communication	3
CA 2018	Consumer Insight	3
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
NM 3401	Production for	
	Communication Tools	3


Major Requ	ired Courses	43 Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia Too	ls 3
CA 3011	Communication Arts Researc	h 3
NM 3402	Film and Time-based	
	Media Production	3
NM 3404	Multimedia Editing	3
NM 3410	New Media Application	3
NM 3412	Creativity and Innovation	3
NM 3420	Audience Context Analysis	3
NM 4405	Broadcast and New Media	
	Management	3
NM 4406	Broadcast Media Production	
	and Directing	3
NM 4407	Seminar in Broadcast and	
	New Media	3
NM 4408	Studio Workshop	6
NM 4420	Studio Internship (200 Hours)) 1
Major Elect	ive Courses	18 Credits
NM 3411	Advanced Photography	
	and Digital Imaging	3
NM 3414	New Media Journalism	3
NM 3417	Computer Graphics for	
	Communication Design	3
NM 3418	Interactive Media Art	3
NM 3419	Selected Topics in New Media	a 3

	interactive integration in t	
NM 3419	Selected Topics in New Media	3
NM 4413	Advanced Multimedia Editing	3
NM 4414	Sound for Video Production	3
NM 4417	Media Content Analysis	3
NM 4418	Integrated New Media	
	Environments	3
NM 4419	Utilization of New Media	
	Programming	3

Students can take Advertising, Performance

Communication, and Public Relations courses as major elective courses upon completion of the prerequisites (if any).

Minor Courses 18 Credits

Students can choose one of the following groups as the minor courses.

Advertising Minor Req	g uired Courses	9 Credits
AD 3102	Advertising Media Planning	3
AD 3103	Advertising Creative Strategy	3
AD 3112	Brand Communication	3
Minor Elec	tive Courses	9 Credits
9 credits fr completion Performan	an take minor elective courses o om the Department of Advertisi n of the prerequisites (if any). ce Communication	ng upon
	uired Courses	9 Credits
PC 3305	Script Writing and Analysis	3
PC 3308	Performance/ Event Criticism	3
PC 4311	Production Management	
	for Performance	3
Minor Elec	tive Courses	9 Credits

Students can take minor elective courses of 9 credits from the Department of Performance Communication upon completion of the prerequisites (if any).

Public Rela Minor Req	uired Courses	9 Credits
PR 3202	Strategic Public Relations	
	Campaign Planning and	
	Evaluation	3
PR 3214	Organization Communication	n 3
PR 4201	Corporate Communication	
	and Stakeholder Relations	3
Minor Elec	tive Courses	9 Credits

Students can take minor elective courses of 9 credits from the Department of Public Relation upon completion of the prerequisites (if any).

C. Free Elective Courses 6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
CA 1001	Introduction to Communication	n 3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
GE 1102	Introduction to Philosophy	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For international Students)	3
	Total	18

SECOND YEAR First Semester

list Semester

Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2007	Introduction to New Media	
	and Broadcasting	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

Course Code	Course Title	Credits
BG 2001	English IV	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public	
	Relations	3
CA 2013	Utilization of Multimedia Tools	3
GE 2202	Ethics	3
NM 3401	Production for	
	Communication Tool	3
	Total	18



THIRD YEAR

FI	rst	Sei	mes	ter

Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 2018	Consumer Insight	3
CA 3011	Communication Arts Research	3
NM 3402	Film and Time-based Media	3
NM 3410	New Media Application	3
	Major Elective or Minor Course	3
	Total	18

Second Semester

Course Code	Course Title	Credits
NM 3404	Multimedia Editing	3
NM 3412	Creativity and Innovation	3
NM 3420	Audience Context Analysis	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

FOURTH YEAR First Semester

Course Code	Course Title	Credits
CA 4010	Law and Ethical Concerns	
	for Communication	3
MGT 2900	Principles of Management	3
NM 4405	Broadcast and New Media	
	Management	3
NM 4406	Broadcast Media Production	
	and Directing	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

Second Semester

Course Code	Course Title	Credits
NM 4407	Seminar in Broadcast and	
	New Media	3
NM 4408	Studio Workshop	6
	Major Elective or Minor Course	. 3
	Major Elective or Minor Course	3
	Total	15

Summer Session

Course Code	Course Title	Credits
NM 4420	Studio Internship (200 Hours)) 1
	Total	1

PC I PERFORMANCE COMMUNICATION



DEPARTMENT OF PERFORMANCE COMMUNICATION

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Know and understand the principles and practices in organizing including creating and designing a performance both behind the scene and on stage.
- Logically and systematically apply performance principles and practices when organizing and managing a performance.
- Effectively and efficiently use a performance, a show and an event as a communication tool.
- Able to work with others harmoniously and responsibly.
- Able to use information and communication technology in creating a performance.
- Able to use English in communicating verbal cues and communicating to a diverse audience

COURSES

A. General E Language Co	ducation Courses ourses	36 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2000	English IV	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	5
01 GL 1404	(For international Students)	3
Social Science	ce Courses	12 Credits
CA 1010	· · · · · · · · · · · · · · · · · · ·	
CA 1012	Macro-environment, Media	2
CA 2016	Effect and Media Literacy	3
CA 2016	Psychology for Persuasive	2
CA 1010	Communication	3
CA 4010	Law and Ethical Concerns	-
CE 2222	for Communication	3
GE 2202	Ethics	3
Humanities	Courses	3 Credits
GE 1102	Introduction to Philosophy	3
Science and	Mathematics Courses	6 Credits
BG 1301	Fundamentals of Statistics	3
GE 1301	Environmental Science	3
B. Specialize	d Courses:	96 Credits
Core Course		39 Credits
CA 1001	Introduction to Communica	ation 3
CA 1002	Introduction to Photograph	v
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
CA 2004	Introduction to Advertising	3
CA 2005	Introduction to Public Relat	ions 3
CA 2007	Introduction to New	
	Media and Broadcasting	3
CA 2015	Introduction to Performance	
	Communication	3
CA 2018	Consumer Insight	3
MGT 1101	Introduction to Business	3
MGT 2900	Principles of Management	3
MKT 2280	Principles of Marketing	3
NM 3401	Production for	
	Communication Tools	3



Major Requ	uired Courses	39 Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia Too	ls 3
CA 3011	Communication Arts Researc	h 3
PC 3305	Script Writing and Analysis	3
PC 3306	Marketing Management for	
	Performance Project	3
PC 3307	Visualization of Stage/ Event	3
PC 3308	Performance/Event Criticism	3
PC 4306	Stage/Event Management	3
PC 4308	Performance Communication	۱
	Workshop I	3
PC 4309	Performance Communication	۱
	Workshop II	3
PC 4310	Seminar in Performance	
	Communication	3
PC 4311	Production Management	
	for Performance	3

Major Elective Courses

18 Credits

Students can choose courses to fulfill 18 credits from the following courses and/or choose minor courses of other departments.

PC 3301	Art and Literature Appreciation	3
PC 3302	Principles of Performance Design	3
PC 3320	Script Writing and Adaptation	
	in Thai	3
or PC 3321	Script Writing and Adaptation in	
	English	3
PC 3322	Acting for Personality/Social	
	Interaction	3
PC 3323	Fundamental of Acting	3
PC 3324	Sound for Performance/Event	3
PC 4315	Fundamentals of Lighting	3
PC 4316	Directing	3
PC 4325	Costume and Make-up Selection	3
PC 4326	Scenery and Prop Creation	3
PC 4327	Selected Topics in Performance	
	Communication	3

Students can take Advertising, New Media Communication, Public Relations, courses as major elective courses upon completion of the prerequisites (if any).

	ses	18 Credits
Students ca minor cours	n choose one of the following ges.	groups as the
	Communication ired Courses	9 Credits
NM 3402	Film and Time-based	
	Media Production	3
NM 3404	Multimedia Editing Broadcast Media Production	3
NM 4406	and Directing	3
	and Directing	2
Minor Elect	ive Courses	9 Credits
sites (if any) Public Relat Minor Requ		9 Credits
PR 3202	Strategic Public Relations	
	Campaign Planning	
	Campaign Planning and Evaluation	3
PR 3214	and Evaluation Organizational Communicati	
PR 3214 PR 4201	and Evaluation Organizational Communicati Corporate Communication	on 3
	and Evaluation Organizational Communicati	
	and Evaluation Organizational Communicati Corporate Communication and Stakeholder Relations	on 3
PR 4201 Minor Elect Students ca credits from	and Evaluation Organizational Communicati Corporate Communication and Stakeholder Relations	on 3 3 9 Credits f 9

Minor Required Courses		9 Credits	
AD 3102	Advertising Media Planning	3	
AD 3103	Advertising Creative Strategy	3	
AD 3112	Brand Communication	3	



Minor Elective Courses

9 Credits

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Students can take minor elective courses of 9 credits from the Department of Advertising upon completion of the prerequisites (if any).

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR

First Semester

Course Code	Course Title	Credits
BG 1001	English I	3
CA 1001	Introduction to Communication	n 3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
CA 1017	Introduction to Creative	
	Communication Design	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3
	Total	18

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography	
	and Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
GE 1102	Introduction to Philosophy	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For international Students)	3
	Total	18



SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2005	Introduction to Public Relation	is 3
CA 2015	Introduction to Performance	
	Communication	3
CA2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
CA 2004	Introduction to Advertising	3
CA 2007	Introduction to New	
	Media and Broadcasting	3
CA 2013	Utilization of Multimedia Tools	3
CA 3018	Consumer Insight	3
GE 2202	Ethics	3
	Total	18

THIRD YEAR First Semester

Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 3011	Communication Arts Research	3
NM 3401	Production for	
	Communication Tools	3
PC 3305	Script Writing and Analysis	3
PC 3308	Performance/ Event Criticism	3
	Major Elective or Minor Course	3
	Total	18

Course Code	Course Title	Credits
PC 3306	Marketing Management	
	for Performance Project	3
PC 3307	Visualization of Stage/ Event	3
PC 4306	Stage/Event Management	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Total	15







FOURTH YEAR First Semester

Course Code	Course Title	Credits
CA 4010	Law and Ethical Concern	
	for Communication	3
MGT 2900	Principles of Management	3
PC 4308	Performance Communication	
	Workshop I	3
PC 4311	Production Management	
	for Performance	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

Course Code	Course Title	Credits
PC 4309	Performance Communication	
	Workshop II	3
PC 4310	Seminar in Performance	
	Communication	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	15



PR I PUBLIC RELATIONS



DEPARTMENT OF PUBLIC RELATIONS

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Have morals, ethics, public consciousness, and social responsibility in accordance with professional code of ethics.
- Have well-grounded academic knowledge, skills, and practical experiences in the field of public relations, communication arts, management and business and able to work in the field of public relations and communication in the society.
- Have the skill to analyze situations by appropriately applying their knowledge, reasoning, and judgment when they encounter situations in different social contexts, and cultures.
- Have a good personality with good social manners and able to appropriately work with people at all levels.
- Able to continuously develop themselves academically and professionally.
- Have knowledge and ability to use basic mathematics to interpret data and analyze information for planning, management, and development.
- Make efficient use of information technology and foreign languages, especially English and able to communicate cross-culturally.
- Have creativity and communication skills for presentation.

COURSES

A. General E Language Co	ducation Courses ourses	36 Credits 15 Credits
BG 1001	English I	3
BG 1001	English II	3
	English III	3
BG 2000	5	
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions (For international Students)	3
Social Scienc	e Courses	12 Credits
CA 1012	Macro-environment, Media	
CATIONZ	Effect and Media Literacy	3
CA 2016	Psychology for Persuasive	5
CA 2010	Communication	3
CA 4010		5
CA 4010	Law and Ethical Concerns	2
CE 2202	for Communication Ethics	3
GE 2202	Ethics	3
Humanities (Courses	3 Credits
GE 1102	Introduction to Philosophy	3
Science and	Mathematics Courses	6 Credits
BG 1301	Fundamentals of Statistics	3
BG 1301 GE 1301		-
BG 1301 GE 1301	Fundamentals of Statistics Environmental Science	3
GE 1301	Environmental Science	3
GE 1301 B. Specialized	Environmental Science	3 97 Credits
GE 1301	Environmental Science	3
GE 1301 B. Specialized Core Courses	Environmental Science d Courses:	3 97 Credits 39 Credits
GE 1301 B. Specialized Core Courses CA 1001	Environmental Science d Courses: 5 Introduction to Communica	97 Credits 39 Credits ation 3
GE 1301 B. Specialized Core Courses	Environmental Science d Courses: 5 Introduction to Communica Introduction to Photograph	97 Credits 39 Credits ation 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography	97 Credits 39 Credits ation 3
GE 1301 B. Specialized Core Courses CA 1001	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism	3 97 Credits 39 Credits ation 3 yy 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication	97 Credits 39 Credits ation 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media	3 97 Credits 39 Credits tition 3 yy 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media and Broadcasting	3 97 Credits 39 Credits tition 3 y 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media and Broadcasting Introduction to Performanc	3 97 Credits 39 Credits tition 3 y 3 3 3 3 4 3 2 4 3 3 2 4 3 3 3 3 4 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media and Broadcasting Introduction to Performance Communication	3 97 Credits 39 Credits ation 3 by 3 3 3 3 4 3 3 4 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018 MGT 1101	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018 MGT 1101 MGT 2900	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018 MGT 1101 MGT 2900 MKT 2280	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media and Broadcasting Introduction to Performance Communication Consumer Insight Introduction to Business Principles of Management Principles of Marketing	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018 MGT 1101 MGT 2900	Environmental Science	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3
GE 1301 B. Specialized Core Courses CA 1001 CA 1002 CA 1006 CA 1017 CA 2004 CA 2005 CA 2007 CA 2015 CA 2018 MGT 1101 MGT 2900 MKT 2280	Environmental Science d Courses: Introduction to Communica Introduction to Photograph and Cinematography Introduction to Journalism and Mass Communication Introduction to Creative Communication Design Introduction to Advertising Introduction to Advertising Introduction to Public Relations Introduction to New Media and Broadcasting Introduction to Performance Communication Consumer Insight Introduction to Business Principles of Management Principles of Marketing	3 97 Credits 39 Credits ation 3 y 3 3 3 3 4 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3



Major Requ	ired Courses 40 Cre	edits
AD 3101	Principles of Marketing	
	Communication	3
CA 2003	Presentation Technique	3
CA 2013	Utilization of Multimedia Tools	3
CA 3011	Communication Arts Research	3
PR 3202	Strategic Public Relations	
	Campaign Planning and Evaluation	3
PR 3204	Marketing Public Relations	3
PR 3214	Organizational Communication	3
PR 3215	Writing for Public	
	Relations in English	3
PR 3227	Media Relations and Planning	3
PR 4201	Corporate Communication	
	and Stakeholder Relations	3
PR 4207	Public Relations Workshop I	3
PR 4208	Public Relations Workshop II	3
PR 4209	Seminar in Public Relations	3
PR 4212	Public Relations	
	Internship (200 Hours)	1
Major Elect	ive Courses 18 Cr	edits
PR 3210	Negotiations	3
PR 3216	Writing for Public Relations	

PR 3216	Writing for Public Relations	
	in Thai	3
PR 3217	Desktop Publishing/	
	Presentation Graphics	3
PR 3218	Special Events Management	
	for Public Relations	3
PR 3224	Applied Research for	
	Public Relations	3
PR 3225	Personality Development	
	and Personal Branding	3
PR 3228	Intercultural Communication	3
PR 3229	Folk and Traditional Media	
	Communication	3
PR 3230	Digital Public Relations	3
PR 4219	Community Relations	3
PR 4220	Financial and Investor	
	Relations	3
PR 4221	Public Relations for Issue	
	and Crisis Management	3
PR 4222	News Writing and Reporting	3
PR 4223	Magazine/Feature Writing	3
PR 4226	Selected Topics in Public	
	Relations	3
Students ca	in take Advertising, New Media	

Students can take Advertising, New Media Communication, Performance Communication courses as major elective courses upon completion of the prerequisites (if any). Students can choose one of the following groups as the minor courses.

18 Credits

Advertising

Minor Courses

Minor Required Courses		9 Credits	
AD 3102	Advertising Media Planning	3	
AD 3103	Advertising Creative Strategy	/ 3	
AD 3112	Brand Communication	3	

Minor Elective Courses 9 Credits

Students can take minor elective courses of 9 credits from the Department of Advertising upon completion of the prerequisites (if any).

	Media Production	3
NM 3404	Multimedia Editing	3
NM 4406	Broadcast Media	
	Production and Directing	3

Minor Elective Courses 9 Credits

Students can take minor elective courses of 9 credits from the Department of New Media Communication upon completion of the prerequisites (if any).

Performano Minor Requ	9 Credits	
PC 3305	Script Writing and Analysis	3
PC 3308	Performance/Event Criticism	3
PC 4311	Production Management	
	for Performance	3
Minor Elect	ive Courses	9 Credits

Students can take minor elective courses of 9 credits from the Department of Performance Communication upon completion of the prerequisites (if any).



C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



STUDY PLAN

FIRST YEAR First Semester

-	 	 	

Course Code	Course Title	Credits
BG 1001	English I	3
CA 1001	Introduction to Communicatio	n 3
CA 1012	Macro-environment, Media	
	Effect and Media Literacy	3
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
or GE 1404	Thai Culture and Traditions	
	(For international Students)	3
MGT 1101	Introduction to Business	3
	Total	18
	Total	1

Course Code	Course Title	Credits
BG 1002	English II	3
BG 1301	Fundamentals of Statistics	3
CA 1002	Introduction to Photography a	and
	Cinematography	3
CA 1006	Introduction to Journalism	
	and Mass Communication	3
CA 1017	Introduction to Creative	
	Communication Design	3
GE 1102	Introduction to Philosophy	3
****************	Total	18



SECOND YEAR First Semester

Course Code	Course Title	Credits
BG 2000	English III	3
CA 2003	Presentation Technique	3
CA 2005	Introduction to Public Relation	s 3
CA 2015	Introduction to Performance	
	Communication	3
CA 2016	Psychology for Persuasive	
	Communication	3
MKT 2280	Principles of Marketing	3
	Total	18

THIRD YEAR First Semeste

11	S	t	S	e	n	ſ	e	S	t	e	r

Course Code	Course Title	Credits
AD 3101	Principles of Marketing	
	Communication	3
CA 3011	Communication Arts Research	3
NM 3401	Production for	
	Communication Tools	3
PR 3202	Strategic Public Relations	
	Campaign Planning and	
	Evaluation	3
PR 3214	Organizational Communication	n 3
PR 3215	Writing for Public Relations	
	in English	3
	Total	18

Second Semester

Course Code	Course Title	Credits
BG 2001	English IV	3
CA 2004	Introduction to Advertising	3
CA 2007	Introduction to New	
	Media and Broadcasting	3
CA 2013	Utilization of Multimedia Tools	3
CA 2018	Consumer Insight	3
GE 2202	Ethics	3
	Total	18

Second Semester

Course Code	Course Title	Credits
MGT 2900	Principles of Management	3
PR 3204	Marketing Public Relations	3
PR 3227	Media Relations and Planning	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	18

Summer Session

Course Code	Course Title	Credits
PR 4212	Public Relations	
	Internship (200 Hours)	1
	Total	1



FOURTH YEAR

LIL.	sι	Sel	nes	ter

Course Code	Course Title	Credits
CA 4010	Law and Ethical Concerns	
	for Communication	3
PR 4201	Corporate Communication	
	and Stakeholder Relations	3
PR 4207	Public Relations Workshop I	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	
	Total	15

Course Code	Course Title	Credits
PR 4208	Public Relations Workshop II	3
PR 4209	Seminar in Public Relations	3
	Major Elective or Minor Course	3
	Major Elective or Minor Course	3
	Free Elective Course	3
	Total	15



VCD I VISUAL COMMUNICATION



DEPARTMENT OF VISUAL COMMUNICATION DESIGN

OBJECTIVES

We are committed to provide the local and global community with visual communication designers who are aware of their role in society. An individual must carry out design conforming to business convention, realizing the sustainable approaches and uplifting social and culture practice as well as personal visual exploration.

COURSES

A. General Education Courses Language Courses		31 Credits 12 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Scien	ce Courses	7 Credits
GE 1204		1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities	Courses	9 Credits
ART 4018	Art Appreciation	3
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and	3 Credits	
MA 1200	Mathematics for Business	3

B. Specialized Core Courses		
ART 1001	Drawing	3
ART 1002	2 Dimensional Foundation	3
ART 1003	Color Theory	3
ART 1004	Technical Drawing	3
ART 1005	Painting	3
ART 1006	3 Dimensional Foundation	3
ART 1208	Computer Graphic Foundation	3
ART 2009	History of Art	3
ART 2010	Typography	3
ART 2112	Illustration	3
ART 2311	Photography	3
ART 3014	Thai Art	3
ART 4019	Aesthetics	3
ART 4020	Law and Ethics for Arts	
	and Design	3
MKT 2280	Principles of Marketing	3
Maiax Daavi	red Courses 49 Cre	dite
Major Requir		uits
ART 2313		3
	Digital Imaging History of Modern Design	
ART 2313	Digital Imaging	3
ART 2313 ART 3016	Digital Imaging History of Modern Design	3
ART 2313 ART 3016 ART 3017	Digital Imaging History of Modern Design Internship (160 hours)	3 3 1
ART 2313 ART 3016 ART 3017 ART 3215	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media	3 3 1 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I	3 3 1 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II	3 3 1 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production	3 3 1 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography	3 3 1 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2105	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III	3 3 1 3 3 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2105 VIS 3106	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III Sketch Design	3 3 1 3 3 3 3 3 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2104 VIS 2105 VIS 3106 VIS 3107	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III Sketch Design Visual Communication Design IV	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2105 VIS 3106 VIS 3107 VIS 3110	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III Sketch Design Visual Communication Design IV Visual Communication Design V	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2105 VIS 3106 VIS 3107 VIS 3110 VIS 4115	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III Sketch Design Visual Communication Design IV Visual Communication Design V Design Management	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ART 2313 ART 3016 ART 3017 ART 3215 VIS 1101 VIS 2102 VIS 2103 VIS 2104 VIS 2105 VIS 3106 VIS 3107 VIS 3110 VIS 4115 VIS 4116	Digital Imaging History of Modern Design Internship (160 hours) Interactive and Time Base Media Visual Communication Design I Visual Communication Design II Print Production Advanced Typography Visual Communication Design III Sketch Design Visual Communication Design IV Visual Communication Design IV Visual Communication Design V Design Management Art Thesis I	3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Choose one group of Elective Courses

Graphic Design

VIS 3108	Publication Design	3
VIS 3111	Package Design	3
VIS 3112	Typeface Design	3
VIS 4117	Signage System and Way	
	finding Design	3
VIS 4118	Display and Exhibition Design	3



Advertising Design

VIS 3409	Idea-Generation Techniques	3
VIS 3413	Advertising Graphics	3
VIS 3414	Copywriting	3
VIS 4419	Production Design	3
VIS 4420	Advertising Campaign Design	3
C. Free Elec	tive Courses	6 Credits
		-

VIS 4123	Individual Project	3
VIS 4124	Book Binding	3
VIS 4125	Sketch Fashion Design	3

Students can also take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





STUDY PLAN

FIRST YEAR First Semeste	r	
Course Code	Course Title	Credits
ART 1001	Drawing	3
ART 1002	2 Dimensional Foundation	3
ART 1003	Color Theory	3
ART 1004	Technical Drawing	3
BG 1001	English I	3
MGT 1101	Introduction to Business	3
	Total	18

Second Semester

Course Code	Course Title	Credits
ART 1005	Painting	3
ART 1006	3 Dimensional Foundation	3
ART 1208	Computer Graphic Foundation	3
BG 1002	English II	3
BG 1200	Mathematics for Business	3
VIS 1101	Visual Communication Design	I 3
	Total	18

SECOND YEAR First Semester

Course Code	Course Title	Credits
ART 2009	History of Art	3
ART 2010	Typography	3
ART 2311	Photography	3
BG 2000	English III	3
MKT 2280	Principles of Marketing	3
VIS 2102	Visual Communication Design	II 3
	Total	18

Course Code	Course Title	Credits
ART 2112	Illustration	3
ART 2313	Digital Imaging	3
BG 2001	English IV	3
GE 1204	Physical Education	1
VIS 2103	Print Production	3
VIS 2104	Advanced Typography	3
VIS 2105	Visual Communication Design I	II 3
	Total	19



THIRD YEAR

First Semester

Course Code	Course Title	Credits
ART 3014	Thai Art	3
ART 3215	Interactive and Time	
	Base Media	3
GE 2101	World Civilization	3
VIS 3106	Sketch Design	3
VIS 3107	Visual Communication	
	Design IV	3
Major Elective	Course : Graphic Design	
VIS 3108	Publication Design	3
	or	
Major Elective	Course : Advertising Design	
VIS 3409	Idea-Generation	
	Techniques	3
	Total	18

FOURTH YEAR First Semester

Course Code	Course Title	Credits
ART 4018	Art Appreciation	3
VIS 4115	Design Management	3
VIS 4116	Art Thesis I	3
	Free Elective Course	3
Major Elective	e Courses : Graphic Design	
VIS 4117	Signage System and Way	
	finding Design	3
VIS 4118	Display and Exhibition	
	Design	3
	or	
Major Elective	Courses : Advertising Design	
VIS 4419	Production Design	3
VIS 4420	Advertising Campaign	
	Design	3
	Total	18

Second Semester

Course Code	Course Title	Credits
ART 3016	History of Modern Design	3
GE 2202	Ethics	3
MGT 2404 VIS 3110	Managerial Psychology Visual Communication	3
	Design V	3
Major Elective	e Courses : Graphic Design	
VIS 3111	Package Design	3
VIS 3112	Typeface Design	3
	or	
Major Elective	Courses : Advertising Design	
VIS 3413	Advertising Graphics	3
VIS 3414	Copywriting	3
	Total	18

Summer Session

Course Code	Course Title	Credits
ART 3017	Internship (160 hours)	1
	Total	1

Course Code	Course Title	Credits
ART 4019	Aesthetics	3
ART 4020	Law and Ethics for Arts	
	and Design	3
VIS 4121	Self Promotion	3
VIS 4122	Art Thesis II	6
	Free Elective Course	3
	Total	18

CGI I COMPUTER GENERATE IMAGERY



DEPARTMENT OF COMPUTER GENERATED IMAGERY

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Exercise professional ethics and recognize the impact of creative works on the society.
- Capable of applying theoretical knowledge and technical skills in computer generated imagery to profession.
- Capable of using skills in critical, logical and analytical thinking to solve problems in their profession and life.
- Able to work with others in their field.
- Capable of using information technology in the practice of their profession.
- Capable of using communication skills in Thai and English on conveying message visualizing ideas and presenting professional works.

COURSES

COUNSES		
A. General Ec Language Co	ducation Courses urses	31 Credits 12 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Science	e Courses	7 Credits
GE 1204	Physical Education	1
GE 2202	Ethics	3
MGT 1101	Introduction to Business	3
Humanities C	ourses	9 Credits
ART 4018	Art Appreciation	3
GE 2101	World Civilization	3
MGT 2404	Managerial Psychology	3
Science and Mathematics Courses		3 Credits
BG1200	Mathematics for Business	3
B. Specialized	Courses:	109 Credits
Core Courses		45 Credits
ART 1001	Drawing	3
ART 1002	2 Dimensional Foundation	3
ART 1003	Color Theory	3
ART 1004	Technical Drawing	3
ART 1005	Painting	3
ART 1007	Figure Drawing	3
ART 1208	Computer Graphics Foundation	ation 3
ART 2009	History of Art	3
ART 2010	Typography	3
ART 2311	Photography	3
ART 2112	Illustration	3
ART 3014	Thai Art	3
ART 4019	Aesthetics	3
ART 4020	Law and Ethics for Art	2
MKT 2280	and Design Principles of Marketing	3 3



Major Required Courses 49		Credits
ART 3017	Internship (160 hours)	1
CGI 1201	Computer Graphics	
	Design Studio I	3
CGI 2202	Introduction to Motion	
	Picture and Animation	3
CGI 2203	Computer Graphics	
	Design Studio II	3
CGI 2204	Introduction to 3D Modeling	3
CGI 2205	Motion Graphics Design	3
CGI 2206	Sound Design	3
CGI 3207	Animation Concept and	
	Story Telling	3
CGI 3208	Computer Graphics	
	Design Studio III	3
CGI 3209	3D Animation	3
CGI 3210	Computer Graphics	
	Design Studio IV	3
CGI 3211	Cinematic Lighting & Renderin	ig 3
CGI 3212	Computer Graphics	
	Design Studio V	3
CGI 4223	Art Thesis I	3
CGI 4224	Computer Graphics	
	Design Portfolio	3
CGI 4225	Art Thesis II	6
Major Electi	ve Courses 15	Credits

Choose one group of elective courses

Animation

CGI 3213	Digital Image for Digital	
	Production	3
CGI 3214	Movement Analysis and	
	Integration	3
CGI 3215	Animation Production	3
CGI 3216	Creative Process of	
	Character Design and Setup	3
CGI 4217	Digital Painting for Visual Effects	3

Visual Effects

CGI 3218	Cinematic Setup	
CGI 3219	Principles of Digital Effects	
CGI 3220	Digital Compositing	
CGI 3221	Visual Effects I	
CGI 4222	Visual Effects II	

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





STUDY PLAN

Course Code	Course Title	Credits
ART 1001	Drawing	3
ART 1002	2 Dimensional Foundation	З
ART 1003	Color Theory	3
ART 1004	Technical Drawing	3
ART 2009	History of Art	3
BG 1001	English I	3
MGT 1101	Introduction to Business	3

SECOND YEAR

First Semester

Course Code	Course Title	Credits
ART 2010	Typography	3
ART 2112	Illustration	3
ART 2311	Photography	3
BG 2000	English III	3
CGI 2202	Introduction to Motion	
	Picture and Animation	3
CGI 2203	Computer Graphics	
	Design Studio II	3
MKT 2280	Principles of Marketing	3
	Total	21

Second Semester

Course Code	Course Title	Credits
ART 1005	Painting	3
ART 1007	Figure Drawing	3
ART 1208	Computer Graphics	
	Foundation	3
BG 1002	English II	3
BG 1200	Mathematics for Business	3
CGI 1201	Computer Graphics	
	Design Studio I	3
	Total	18

Course Code	Course Title	Credits
BG 2001	English IV	3
CGI 2204	Introduction to 3D Modeling	3
CGI 2205	Motion Graphics Design	3
CGI 2206	Sound Design	3
CGI 2207	Animation Concept and	
	Story Telling	3
CGI 2208	Computer Graphics Design	
	Studio III	3
GE 1204	Physical Education	1
	Total	19



THIRD YEAR

First Semester

Course Code	Course Title	Credits
ART 3014	Thai Art	3
CGI 3209	3D Animation	3
CGI 3210	Computer Graphics	
	Design Studio IV	3
GE 2101	World Civilization	3
Major Elective	e Courses : Animation	
CGI 3213	Digital Image for Digital	
	Production	3
CGI 3214	Movement Analysis	
	and Integration	3
	or	
Major Elective	e Courses : Visual Effects	
CGI 3218	Cinematic Setup	3
CGI 3219	Principles of Digital Effects	3
	Total	18

Second Semester

Course Code	Course Title	Credits
CGI 3211	Cinematic Lighting &	
	Rendering	3
CGI 3212	Computer Graphics	
	Design Studio V	3
MGT 2404	Managerial Psychology	3
Major Elective	Courses : Animation	
CGI 3215	Animation Production	3
CGI 3216	Creative Process of	
	Character Design and Setup	3
	or	
Major Elective	Courses : Visual Effects	
CGI 3220	Digital Compositing	3
CGI 3221	Visual Effects I	3
	Total	15

Summer Session

Course Code	Course Title	Credits
ART 3017	Internship (160 hours)	1
	Total	1

FOURTH YEAR

First Semester

Course Code	Course Title	Credits
ART 4018	Art Appreciation	3
ART 4019	Aesthetics	3
GI 4223	Art Thesis I	3
GE 2202	Ethics	3
	Free Elective Course	3
Major Electiv	e Courses : Animation	
GI 4217	Digital Painting for	
	Visual Effects	3
	or	
Major Electiv	e Courses : Visual Effects	
CGI 4222	Visual Effects II	3
	Total	18

Course Code	Course Title	Credits
ART 4020	Law and Ethics for Arts	
	and Design	3
CGI 4224	Computer Graphics	
	Design Portfolio	3
CGI 4225	Art Thesis II	6
	Free Elective Course	3
	Total	15



SCHOOL OF LAW

Curriculum Structure Courses	Laws	
A. General Education Courses • Language Courses • Social Science Courses • Humanities Courses • Science and Mathematics Courses	30 15 9 3 3	
B. Specialized Courses • Core Courses • Major Required Courses • Major Elective Courses	113 90 21 2	
C. Free Electives Courses	6	
Total	149	

OBJECTIVES

- Have moral and ethics in the practice of law profession and demonstrate fairness and responsibility to society.
- Have knowledge in basic law, business law and passes English skills for reading, for communication and for writing.
- Use cognitive skills and able to use knowledge in law to analyze and solve problems appropriately according to situations.
- Able to work with others and able to adjust oneself to working environment and coworkers appropriately.
- Posses leadership skill and have responsibility to oneself and the society.
- Able to plan for one's development and acquisition of knowledge.
- Able to use information technology effectively in communication.



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Laws upon students who meet all of the following requirements:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative Grade Point Average
 of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the university
- Have demonstrated good behavior and discipline

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COURSES

A. General Education Courses Language Courses		30 Credits 15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
Social Science	ce Courses	9 Credits
BG 2403		3
GE 1202	General Psychology	3
GE 2202	Ethics	3
Humanities	Courses	3 Credits
GE 2101	World Civilization	3
Science and	Mathematics Courses	3 Credits
GE 1301	Environmental Science	3



B. Specialize	d Courses 1	113 Credits
Core Course	s	90 Credits
LW 1101	Juristic Acts and Contracts L	aw 3
LW 1101	Property and Land Law	aw 3
LW 1102	Criminal Law I	3
LW 1201	Principles of Private Law	3
LW 1501	Principle of Public Law	2
LW 1502	Thai Legal History	2
LW 1505	Constitutional Law	3
LW 2103	Obligations Law	3
LW 2104	Law of Delict	3
LW 2105	Insurance Law	2
LW 2106	Specific Contracts I	3
LW 2107	Partnership and Company La	
LW 2108	Negotiable Instruments and	
	Current Accounts Law	2
LW 2202	Criminal Law II	2
LW 2203	Criminal Law III	3
LW 2505	Administrative Law	2
LW 2601	Public Finance Law	2
LW 2602	Computer Law and Compute	er
	for Legal Research	3
LW 3109	Specific Contracts II	3
LW 3110	Family Law	3
LW 3111	Secured Transactions Law	2
LW 3112	Succession Law	3
LW 3301	Civil Procedural Law	4
LW 3302	Criminal Procedural Law	4
LW 3303	Constitution of Courts of	
	Justice and Judicial System	2
LW 3304	Civil Procedural Law on	
	Execution of Judgment	
	and Orders	2
LW 3305	Evidence Law	3
LW 3306	Bankruptcy Law	3
LW 3401	Public International Law	3
LW 3602	Tax Law I	3
LW 4402	Private International Law	3
LW 4506	Philosophy of Law	2
LW 4604	Labor and Social Security Lav	w 3

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Major Requ	uired Courses	21 Credits
LW 3001	English for Lawyers I	2
LW 3002	English for Lawyers II	2
LW 3603	Tax Law II	2
LW 4605	Intellectual Property Law	3
LW 4606	International Business	
	Transactions Law	2
LW 4607	Banking and Financial	
	Institutions Law	2
LW 4608	Securities and Securities	
	Exchange Law	2
LW 4609	Principles of Contract Drafting	g 2
LW 4610	Investment Law	2
LW 4611	Counseling and Advocacy	2



Major Elect	ive Courses	2 Credits
LW 4113	Seminar in Civil and	
	Commercial Law	2
LW 4204	Criminology and Penology	2
LW 4205	Criminal Investigation	2
LW 4206	Seminar in Criminal Law	2
LW 4307	Juvenile and Family Law	2
LW 4308	Administrative Court and	
	Administrative Procedure	2
LW 4309	Seminar in Civil Procedural Lav	w 2
LW 4310	Seminar in Criminal	
	Procedural Law	2
LW 4403	International Economic Law	2
LW 4404	Maritime Law	2
LW 4405	Law of the Sea	2
LW 4406	International Organization Law	v 2
LW 4407	Human Rights Law	2
LW 4408	ASEAN Law	2
LW 4507	Military Law	2
LW 4508	Environmental Law	2
LW 4509	Introduction to American	
	and English Legal System	2
LW 4510	Forensic Medicine	2
LW 4511	Principles of Legal Profession	2
LW 4612	Customs Law	2
LW 4613	Industrial Law	2
LW 4614	Real Estate Law	2
LW 4615	Tax Law III	2
LW 4616	Consumer Protection Law	2
LW 4617	Anti-Monopoly Law	2 2
LW 4618	Commercial Arbitration Law	2
LW 4619	Natural Resources Law	2 2 2
LW 4620	Seminar in Tax Law	2
LW 4621	Seminar in Business Law	2
LW 4622	Electronic Commerce Law	2
LW 4623	Computer and Law:	
	A Seminar Course	2

C. Free Electives Courses

6 Credits

Students can take free elective course which are offered by the school upon completion of the prerequisite(s) (if any).

STUDY PLAN

FIRST YEAR

First Semester

Code	Subjects	Credits
BG 1001	English I	3
GE 1202	General Psychology	3
GE 1301	Environmental Science	3
GE 1403	Communication in Thai	3
LW 1501	Principles of Private Law	3
LW 1502	Principle of Public Law	2
LW 1503	Thai Legal History	2
	Total	19

Second Semester

Code	Subjects	Credits
BG 1002	English II	3
BG 2403	Introduction to Economics	3
LW 1101	Juristic Acts and Contracts Law	3
LW 1102	Property and Land Law	3
LW 1201	Criminal Law I	3
LW 1504	Constitutional Law	3
	Total	18

SECOND YEAR First Semester

Code	Subjects	Credits
BG 2000	English III	3
GE 2101	World Civilization	3
LW 2103	Obligations Law	3
LW 2104	Law of Delict	3
LW 2105	Insurance Law	2
LW 2202	Criminal Law II	2
LW 2505	Administrative Law	2
LW 2601	Public Finance Law	2
	Total	20

Code	Subjects	Credits
BG 2001	English IV	3
GE 2202	Ethics	3
LW 2106	Specific Contracts I	3
LW 2107	Partnership and Company Law	3
LW 2108	Negotiable Instruments	
	and Current Accounts Law	2
LW 2203	Criminal Law III	3
LW 2602	Computer Law and Computer	
	for Legal Research	3
	Total	20



THIRD YEAR

First Semester

Code	Subjects	Credits
LW 3001	English for Lawyers I	2
LW 3109	Specific Contracts II	3
LW 3110	Family Law	3
LW 3301	Civil Procedural Law	4
LW 3302	Criminal Procedural Law	4
LW 3303	Constitution of Courts of	
	Justice and Judicial System	2
LW 3602	Tax Law I	3
	Total	21

FOURTH YEAR First Semester

Code	Subjects	Credits
LW 4402	Private International Law	3
LW 4506	Philosophy of Law	2
LW 4604	Labor and Social Security Law	3
LW 4605	Intellectual Property Law	3
LW 4606	International Business	
	Transaction Law	2
	Two Free Elective Courses	6
	Total	19

Second Semester

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Code	Subjects	Credits
LW 3002	English for Lawyers II	2
LW 3111	Secured Transactions Law	2
LW 3112	Succession Law	3
LW 3304	Civil Procedural Law on Exect	ution
	Judgement and Orders	2
LW 3305	Evidence Law	3
LW 3306	Bankruptcy Law	3
LW 3401	Public International Law	3
LW 3603	Tax Law II	2
	Total	20

Code	Subjects	Credits
LW 4607	Banking and Financial	
	Institutions Law	2
LW 4608	Securities and Securities	
	Exchange Law	2
LW 4609	Principles of Contract Drafting	2
LW 4610	Investment Law	2
LW 4611	Counseling and Advocacy	2
	One Major Elective Course	2
	Total	12



SCHOOL OF BIOTECHNOLOGY

Curriculum Structure

Courses	Agro-Industry	Food Technology
A. General Education Courses	30	30
- Language Courses	12	12
- Social Science Courses	6	6
- Humanities Courses	6	6
- Science and Mathematics Courses	6	6
B. Specialized Courses	106	106
- Core Courses	55	55
- Major Required Courses	42	42
- Major Elective Courses	9	9
C. Free Electives Courses	6	б
Total Credits	142	142



INTRODUCTION TO BIOTECHNOLOGY

Biotechnology literally means the application of life sciences to industrial processes. Principles of science learned in the classroom and the laboratory may be used by industry to develop and improve products, which can benefit the consumer and can provide a healthy profit for the producer.

The application of recombinant DNA techniques means that processes, which have been around for centuries, can be made to work better and faster. These include brewing, cheese-making as well as plant and animal breeding. This reshaping of the very essence of life in microorganisms, plants, and animals can improve existing agricultural products and/or create new and unique ones. Because biotechnology is closely related to the agricultural sector, it has an impact on the lives of many Thais who are involved in agriculture and related industries. Biotechnology is currently providing agriculture with a variety of useful agents: soil innoculents, veterinary products, aquaculture and mariculture products, and also the development of new or improved plant and animal strains. In addition, the food industry is benefiting from new varieties of starter cultures and enzymes, as well as with food processing.

In service industries, biotechnology plays a major role in both aqueous and solid waste treatment, waste valorization and water purification.

Because Assumption University is aware of the importance of biotechnology for the development of Thailand and all of Southeast Asia, it offers the following Bachelor's Degree courses:

- 1. Agro-Industry
- 2. Food Technology

These are directly involved with applying bioscience research to food processing and other agricultural industries.



Here is a list of some positions held by food and agro-industrial scientists:

- Quality Assurance Manager
- Director of Research and Development
- Food Scientist
- Laboratory Director
- Sales Manager
- Project Leader, Technology
- General Manager, Research
- Meat Scientist
- Cereal Scientist
- Technology Development Manager
- Research Scientist
- Quality Assurance Supervisor
- Director of Quality Assurance
- Technical Sales Representative
- Food Inspector
- Plant Supervisor
- Food Chemist
- Senior Scientist
- Technical Director
- Food Microbiologist
- Sensory Scientist
- Food Technologist
- Dairy Products Scientist
- Agro Industry Supervisor
- Agro business employee and owner
- Alcoholic and non-alcoholic beverage Industry
 Supervisor

Students in Biotechnology undergraduate program at Assumption University benefit from a committed faculty, small classes, and an emphasis on teamwork and shared responsibility for learning. The undergraduate programs in Food Technology and Agro-Industry are designed to accommodate students with a variety of interests and career goals.

GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Science upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative Grade Point Average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance
 from the university
- Have demonstrated good behavior and discipline





DEPARTMENT OF AGRO-INDUSTRY

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Demonstrate moral responsibility to the society, the environment and their profession.
- Understand the principles of basic science and how they are applied to the improvement of productivity and competitiveness of agro-products.
- Understand the diversity of agro-commodity and the value chain of the important commodity.
- Understand the basic knowledge and procedure to create product innovation and design new process to improve safety and quality of agro products.
- Able to apply their knowledge in the practice of their profession.
- Able to work with people in the specialized field and other fields.
- Able to communicate effectively in spoken and written form.
- Able to make appropriate use of technology in the practice of their profession.
- Able to use information technology in searching for information, communication, and presentation of ideas effectively.



COURSES

A. General E Language C	ducation Courses	30 Credits 12 Credits
BG 1001	5	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
Social Scien	ce Courses	6 Credits
BG 2403	Introduction to Economics	3
GE 2202	Ethics	3
Humanities Courses		6 Credits
GE 1202	General Psychology	3
GE 2101	World Civilization	3
Science and	Mathematics Courses	6 Credits
BG 1201		3
SC 2151	Introduction to	
	Microcomputer Application	3

B. Specialized Courses Core Courses

106 Credits 55 Credits

BS 1001	General Chemistry	3
BS 1002	General Chemistry Laboratory	1
BS 1005	Principles of Biology	3
BS 1006	Biology Laboratory	1
BS 1007	Organic Chemistry	3
BS 1008	Organic Chemistry Laboratory	1
BS 1101	Calculus I for Bioscience	3
BS 1102	Calculus II for Bioscience	3
BS 1201	Physics for Bioscience	3
BS 1202	Physics Laboratory for Bioscience	1
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007	Basic Biochemistry Laboratory	1
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BS 2013	Engineering Drawing for	
	Bioscience	1
BT 2011	Introduction to Biotechnology	3
BT 3013	Introduction to Bioprocessing	
	Engineering	3



BT 3015 BT 3016	Industrial Fermentation Enzyme Technology	3 3	AI 4238	M Te
BT 3017	Principles of Research	3	AI 4239	Se
01 3017	rinciples of Research	J	BS 4001	Ec
Maior Reg	uired Courses 4	2 Credits	55 4001	En
		2 cicuits	BT 3014	M
AI 3201	Biological Material and		BT 3018	Ge
711 5201	Biodegradation	3	FT 3103	Fo
AI 3202	Introduction to Agro-Industry	2	FT 3108	Fo
AI 3202	Instrumentation and Control	2	FT 3109	Fo
711 5205	in Agro-Industrial Process	3	FT 4115	Fr
AI 3204	Processing of Agricultural		FT 4117	Da
711 5201	Products I	3	FT 4121	M
AI 3205	Biochemical Engineering	3		Te
AI 3205	Agro-Industry Management	5	FT 4123	Fo
711 5200	and Marketing	3	FT 4124	Lip
AI 3207	Unit Operation of Agro-Industry		FT 4126	Fo
AI 3208	Standards and Regulations of		FT 4127	Ce
711 5200	Agricultural products	2	FT 4132	Co
AI 4208	Processing of Agricultural	2	nis	
/11 -1200	Products II	3	C. Free Elec	ctive
AI 4209	Unit Operation for Agro-Industry			
AI 4211	Fermentation Process	3	Students c	an ta
AI 4213	Agro-Industrial Quality Control	3	from any fa	
AI 4218	Agro-Industrial Product	3	completio	
711 72 10	Development	3	compiction	
AI 4290	Special Project	SI ³ ICE		
AI 4291	Field Trip			
AI 4291 AI 4292	Seminar	See.1 ~		
AI 4292 AI 4294		on-credit		
		Shicicult		

AI 4238	Mushroom Cultivation	
	Technology	3
AI 4239	Selected Topic	3
BS 4001	Ecology, Conservation and	
	Environmentalism	3
BT 3014	Microbial Physiology	3
BT 3018	Genetic Engineering	3
FT 3103	Food Microbiology	3
FT 3108	Food Chemistry I	3
FT 3109	Food Chemistry II	3
FT 4115	Fruit and Vegetable Technology	3
FT 4117	Dairy Technology	3
FT 4121	Meat Poultry and Fishery	
	Technology	3
FT 4123	Food Sanitation	3
FT 4124	Lipid Technology	3
FT 4126	Food Packaging	3
FT 4127	Cereal Technology	3
FT 4132	Color and Flavor Technology	3

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

Major Elective Courses

9 Credits

AI 4212	Tissue Culture Techniques	
	and Application	3
AI 4215	Agro-Industry Preservation	
	and Packaging	3
AI 4216	Fiber Technology	3
AI 4217	Essential Oil Technology	3
AI 4219	Sugar Technology	3
AI 4220	Post Harvest Technology	3
AI 4221	Alcoholic Beverage Technology	3
AI 4222	Water and Waste Management	3
AI 4223	Waste and By-product Utilization	3
AI 4226	Plant Breeding Technology	3
AI 4232	Secondary Metabolites of	
	Plant Cells	3
AI 4233	Pulp and Paper Technology	3
AI 4234	Wood Technology	3
AI 4235	Rubber Technology	3
AI 4236	Feed Manufacturing Technology	3
AI 4237	Leather Product Technology	3



STUDY PLAN

FIRST YEAF First Seme			Second Ser	mester	
Course Co	de Course TitleCredits		Course Code Course Title Credits		
BG 1001	English I	3	BG 1002	English II	
BS 1001	General Chemistry	3	BG 1201	Statistics I	
BS 1002	General Chemistry Laboratory	1	BS 1007	Organic Chemistry	
3S 1005	Principles of Biology	3	BS 1008	 Organic Chemistry Laboratory 	
3S 1006	Biology Laboratory	1	BS 1102	Calculus II for Bioscience	
3S 1101	Calculus I for Bioscience	3	GE 1201	General Psychology	
3S 1201	Physics for Bioscience	3	SC 2151	Introduction to	
3S 1202	Physics Laboratory for Bioscience	1		Microcomputer Application	
GE 2101	World Civilization	3	AALAA		
				Total	
	Total	21			





SECOND YEAR First

THIRD YEAR
First Semester

SECOND YE First Semes		
Course Coo	de Course Title	Credits
BG 2000	English III	3
BG 2403	Introduction to Economics	3
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007 BS 2013	Basic Biochemistry Laboratory Engineering Drawing	1
2013	for Bioscience	1
	One Free Elective Course	3
	Total	18

Second Semester

de Course Title	Credits
Introduction to Agro-Industry	2
English IV	3
Physical Chemistry	3
Introduction to Microbiology	3
Genetics	3
Introduction to Biotechnology	3
Ethics	3
Total	20
	Introduction to Agro-Industry English IV Physical Chemistry Introduction to Microbiology Genetics Introduction to Biotechnology Ethics

Credits Course Code Course Title AI 3201 **Biological Material and** Biodegradation 3 AI 3204 Processing of Agricultural Products I 3 BT 3013 Introduction to Bioprocessing 3 Engineering BT 3015 Industrial Fermentation 3 3 One Major Elective Course One Free Elective Course 3 Total 18

Course Coo	de Course Title	Credits
AI 3203	Instrumentation and Control	
	in Agro-Industrial Process	3
AI 3205	Biochemical Engineering	3
AI 3207	Unit Operation of Agro-Industry I	3
AI 3208	Standards and Regulations	
	of Agricultural Products	2
AI 4208	Processing of Agricultural	
	Products II	3
BT 3016	Enzyme Technology	3
	Total	17



FOURTH YEAR First Semester

Course Code Course Title		Credits
Al 3206	Agro-Industry Manageme	nt
	and Marketing	3
Al 4209	Unit Operation for Agro-Ir	ndustry II 3
Al 4211	Fermentation Process	3
Al 4213	Agro-Industrial Quality Co	ntrol 3
AI 4294	Internship (300 Hours)	Non-credit
BT 3017	Principles of Research	3
	Total	15

Course Code Course Title		Credits
Al 4218	Agro-Industrial Product	
	Development	3
AI 4290	Special Project	3
Al 4291	Field Trip	1
AI 4292	Seminar	1
	Two Major Elective Courses	6
	Total	. 14





DEPARTMENT OF FOOD TECHNOLOGY

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Possess good moral and ethics, socially and professionally.
- Aware of laws, standards and regulations concerning foods and agricultural products.
- Understand food components, their characteristics and properties, the changes of food components during processing and storage, and selection of suitable analyzing method to determine those food components.
- Understand the principles underlying food safety and food microbiology, development of quality assurance plan for safety food production and food plant sanitation.
- Understand the principles used in preservation, engineering, processing and packaging of the foods and the application of the knowledge in order to develop suitable food production process.
- Possess analysis skills in food chemistry, food safety and food plant sanitation as well as food processing to control and assure of the quality food.
- Experiment and analyze the problems related to assessment of physical and sensory qualities of the foods.
- Able to work with different groups of people in the food industries and related fields.
- Able to use information technology in searching for information, communication, and presentation of ideas effectively.

COURSES

B. Specialized Courses

Core Courses

A Conoral	Education Courses	30 Credits
A. General Education Courses Language Courses		12 Credits
 BG 1001	English I	
BG 1002	5	3
BG 2000	5	3
BG 2001	English IV	3
Social Scie	nce Courses	6 Credits
BG 2403	Introduction to Economics	3
GE 2202	Ethics	3
Humanities Courses		6 Credits
GE 1202	General Psychology	3
GE 2101	World Civilization	3
Science and Mathematics Courses		6 Credits
BG 1201		3
SC 2151		-
	Microcomputer Application	3

106 Credits 55 Credits

BS 1001	General Chemistry	3
BS 1002	General Chemistry Laboratory	1
BS 1005	Principles of Biology	3
BS 1006	Biology Laboratory	1
BS 1007	Organic Chemistry	3
BS 1008	Organic Chemistry Laboratory	1
BS 1101	Calculus I for Bioscience	3
BS 1102	Calculus II for Bioscience	3
BS 1201	Physics for Bioscience	3
BS 1202	Physics Laboratory for Bioscience	1
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007	Basic Biochemistry Laboratory	1
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BS 2013	Engineering Drawing for	
	Bioscience	1


BT 2011 BT 3013	Introduction to Biotechnology Introduction to Bioprocessing	3
	Engineering	3
BT 3015	Industrial Fermentation	3
BT 3016	Enzyme Technology	3
BT 3017	Principles of Research	3
Major Requ	ired Courses	42 Credits
AI 3208	Standards and Regulations	
	of Agricultural Products	2 2
FT 3100	Introduction to Food Technolog	gy 2
FT 3102	Food Engineering	3
FT 3103	Food Microbiology	3
FT 3105	Human Nutrition	3
FT 3106	Industrial Food Processing I	3
FT 3108	Food Chemistry I	3
FT 3109	Food Chemistry II	3
FT 4108	Industrial Food Processing II	3
FT 4110	Food Marketing and	
	Management	3
FT 4112	Food Quality Control	3
FT 4113	Food Product Development	3
FT 4123	Food Sanitation	3
FT 4190	Special Project	3
FT 4191	Field Trip	1
FT 4192	Seminar	SINCE
FT 4194	Internship (300 Hours)	lon-credit

Major Electiv	e Courses	9 Credits
AI 3201	Biological Material and	
	Biodegradation	3
AI 3205	Biochemical Engineering	3
AI 4211	Fermentation Process	3
AI 4219	Sugar Technology	3
AI 4220	Post Harvest Technology	3
AI 4221	Alcoholic Beverage Technology	3
AI 4222	Water and Waste Management	3
AI 4223	Waste and By-product Utilizatio	n 3
BS 4001	Ecology, Conversation and	
	Environmentalism	3
BT 3014	Microbial Physiology	3
BT 3018	Genetic Engineering	3
FT 4114	Bakery Technology	3
FT 4115	Fruit and Vegetable Technology	
FT 4116	Food Toxicology	3
FT 4117	Dairy Technology	3
FT 4120	Food Additive	3
FT 4121	Meat Poultry and Fishery	
	Technology	3
FT 4122	Confectionery Technology	3
FT 4124	Lipid Technology	3
FT 4125	Beverage Technology	3
FT 4126	Food Packaging	3
FT 4127	Cereal Technology	3
FT 4131	Selected Topic	3
FT 4132	Color and Flavor Technology	3
C Ence Election	C	C Consellar

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).





STUDY PLAN

FIRST YEAR	
First Semester	

Course Code Course Title		Credits
BG 1001	English I	3
BS 1001	General Chemistry	3
BS 1002	General Chemistry Laboratory	1
BS 1005	Principles of Biology	3
BS 1006	Biology Laboratory	1
BS 1101	Calculus I for Bioscience	3
BS 1201	Physics for Bioscience	3
BS 1202	Physics Laboratory for	
	Bioscience	1
GE 2101	World Civilization	3
	Total	21

SECOND YEAR **First Semester**

Course Code Course Title		Credits
BG 2000	English III	3
BG 2403	Introduction to Economics	3
BS 2004	Analytical Chemistry	3
BS 2005	Analytical Chemistry Laboratory	1
BS 2006	Basic Biochemistry	3
BS 2007	Basic Biochemistry Laboratory	1
BS 2013	Engineering Drawing for	
	Bioscience	1
	One Free Elective Course	3
	Total	18

Second Semester

Course Code Course Title		Credits
BG 1002	English II	3
BG 1201	Statistics I	3
BS 1007	Organic Chemistry	3
BS 1008	Organic Chemistry Laboratory	1
BS 1102	Calculus II for Bioscience	3
GE 1202	General Psychology	3
SC 2151	Introduction to	
	Microcomputer Application	3
	Total	19

Course Code Course Title		
BG 2001	English IV	3
BS 2008	Physical Chemistry	3
BS 2011	Introduction to Microbiology	3
BS 2012	Genetics	3
BT 2011	Introduction to Biotechnology	3
FT 3100	Introduction to Food Technology	2
GE 2202	Ethics	3
	Total	20



THIRD YEAR First Semester

FOURTH YEAR
First Semester

Course Coo	Credits	
BT 3013	Introduction to Bioprocessing	
	Engineering	3
BT 3015	Industrial Fermentation	3
FT 3103	Food Microbiology	3
FT 3106	Industrial Food Processing I	3
FT 3108	Food Chemistry I	3
	One Free Elective Course	3
	Total	18

Second Semester

Course Cod	Credits	
AI 3208	Standards and Regulations of	
	Agricultural Products	2
BT 3016	Enzyme Technology	3
FT 3102	Food Engineering	3
FT 3104	Human Nutrition	3
FT 3109	Food Chemistry II	3
FT 4108	Industrial Food Processing II	3
	Total	17

-Irst Semester

Course Coo	Credits	
BT 3017	Principles of Research	3
FT 4110	Food Marketing and	
	Management	3
FT 4112	Food Quality Control	3
FT 4194	Internship (300 Hours)	Non-credit
	Two Major Elective Courses	6
	Total	15

Course Coo	Credits	
FT 4113	Food Product Development	3
FT 4123	Food Sanitation	3
FT 4190	Special Project	3
FT 4191	Field Trip	1
FT 4192	Seminar	1
	One Major Elective Course	3
	Total	14





MONTFORT DEL ROSARIO SCHOOL OF ARCHITECTURE AND DESIGN

Curriculum Structure

Courses	Architecture	Interior Architecture	Interior Design	Product Design
A. General Education Courses	30	30	30	30
- Language Courses	15	15	15	15
- Social Science Courses	3	3	3	3
- Humanities Courses	6	6	6	6
- Science and Mathematics				
Courses	6	6	6	6
B. Specialized Courses	129	129	101	101
- Core Courses	36	36	18	18
- Major Required Courses	57	57	80	77
- Major Elective Course	6	6	3	6
- Minor Required Courses	30	30	-	-
C. Free Elective Courses	6	6	6	6
Total Credits	165	165	137	137



GRADUATION REQUIREMENTS

Assumption University confers the degree of Bachelor of Architecture / Bachelorof Fine and Applied Arts upon students who meet all the requirements as follows:

- Have completed the total number of credits of the curriculum
- Have obtained a cumulative Grade Point Average of at least 2.00
- Have participated in 16 sessions of the Professional Ethics Seminar
- Have obtained library and financial clearance from the university
- Have demonstrated good behavior and discipline

OBJECTIVES

To produce graduates who:

- Possess architectural knowledge and skills sufficient to assume architectural leadership position in developing the society and the country, with professional responsibility.
- Are able to take their leading roles in rendering architectural services and development with science and technology knowledge as well as culture and arts conservation.
- Posses Professional ethics that will lead to architectural enhancement and approval of the society.



DEPARTMENT OF ARCHITECTURE

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Possess professional ethics that will lead to architectural enhancement and approval of the society.
- Possess architectural knowledge and skills sufficient to assume architectural leadership position in developing the society and the country, with professional responsibility.
- Initiate research, analyze and critically evaluate solutions to formulate conclusions relating to architectural design.
- Able to take their leading roles in rendering architectural services and work constructively and productively within an interdisciplinary environment.
- Effectively communicate by using a variety of oral, written and IT skills.
- Have dexterity in freehand drawing, architecture drafting, delineation and three dimensional model making.
- Demonstrate integrated marketing communication skills in relation to architecture and design.

COURSES

A. General E	30 Credits			
Language C	15 Credits			
BG 1001	English I	3		
BG 1002	English II	3		
BG 2000	English III	3		
BG 2001	English IV	3		
GE 1403	Communication in Thai	3		
or GE 1401	Language and Communication	on Skills		
	(For International Students)	3		
Social Science Courses		3 Credits		
MGT 1101	Introduction to Business	3		
	C	C C a lite		
Humanities	Courses	6 Credits		
GS 1004	Arts of Delineation	3		
GS 1005	Graphic Presentation	3		
05 1005	diaphierresentation	5		
Science and Mathematics Courses 6 Credits				
GS 1008	Applied Mathematics	3		
GE 1301	Environmental Science	3		
GE 1501	environmental science	5		

B. Specializ Core Cours	zed Courses129 Creses36 Cre	
AR 1102	Visual Studies and Communication	3
AR 1104	Fundamentals of Architectural	
	Design	3
AR 1106	Architectural Drawing	3
AR 1107	Introduction to Creative Culture	3
AR 2106	History of Architecture I	3
AR 2109	Building Technology and	
	Construction I	3
AR 2110	Building Technology and	
	Construction II	3
AR 3101	Introduction to Computer- Aided	
	Design	3
AR 3106	Building Environmental Control I	3
AR 3107	Building Environmental Control II	3
AR 4101	History of Thai Architecture	3
AR 4106	Methods of Research and Data	
	Processing	3

Major Required Courses

A

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A

57 Credits

AR 2202	Architectural Design I	6
AR 2204	Architectural Design II	6
AR 3200	Theory and Concept in Architecture	3
AR 3203	Architectural Design III	6
AR 3207	Architectural Design IV	6
AR 4203	Architectural Design V	6
AR 4205	Architectural Design VI	6
AR 5200	Pre-Thesis in Architecture	3
AR 5203	Architectural Design VII	6
AR 5205	Thesis in Architecture	9

Major Elective Courses 6 Credits AR 5401 **Building Cost Estimation and Control** 3 AR 5402 Fundamentals of Architecture and **Urban** Conservation 3 AR 5403 Advanced Computer - Aided Design 3 AR 5404 **Construction Management** 3 AR 5405 Individual Study in Architecture 3 AR 5407 **Real Estate Development** 3 AR 5409 Architectural Psychology 3 AR 5410 Thai Architecture 3 AR 5413 **Project Management** 3 AR 5414 **Energy Saving** 3 AR 5415 Interactive Features Design 3 AR 5416 Façade Design in Architecture 3 AR 5417 Interior Design by Architects 3 AR 5418 Introduction to Exhibition Design 3 AR 5419 Special Topics in History, Theory and Technology in Architecture 3 Lighting, Perception and Culture AR 5420 3



Minor Required Courses		30 Credi	ts
AR 2304	Structural Design	-	3
AR 2305	History of Architecture II		3
AR 2306	Structural Mechanics		3
AR 3307	Building Technology and		
	Construction III		3
AR 3308	Building Technology and		
	Construction IV		3
AR 3309	Architectural Design Methods		3
AR 3310	Fundamentals of Site and		
	Landscape Planning		3
AR 4301	Fundamentals of Urban and		
	Regional Planning		3
AR 4302	Seminar in Architecture		3
AR 4303	Practicum in Architecture (240	Hours)	0
AR 5300	Professional Ethics and Practice	es	3

STUDY PLAN

FIRST YEAR

First Semester

Code	Subjects Cr	edits	
AR 1102	Visual Studies and Communication	3	
AR 1106	Architectural Drawing	3	
BG 1001	English I	3	
GE 1403	Communication in Thai	3	
or GE 1401	Language and Communication Skills		
	(For International Students)	3	
GS 1004	Arts of Delineation	3	
GS 1008	Applied Mathematics	3	
	Total	18	

Second Semester

Code	Subjects	Credits
AR 1104	Fundamentals of Architectural	
	Design	3
AR 1107	Introduction to Creative Culture	3
BG 1002	English II	3
GE 1301	Environmental Science	3
MGT 1101	Introduction to Business	3
GS 1005	Graphic Presentation	3
	Total	18

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).



SECOND YEAR First Semester

Code	Subjects	Credits
AR 2106	History of Architecture I	3
AR 2109	Building Technology and	
	Construction I	3
AR 2202	Architectural Design I	6
AR 2306	Structural Mechanics	3
BG 2000	English III	3
	Total	18

THIRD YEAR First Semester

Code	Subjects	Credits
AR 3101	Introduction to Computer –	
	Aided Design	3
AR 3106	Building Environmental Control I	3
AR 3203	Architectural Design III	6
AR 3307	Building Technology and	
	Construction III	3
AR 3309	Architectural Design Methods	3
	Total	18

Second Semester

Code	Subjects	Credits
AR 2110	Building Technology and	
	Construction II	3
AR 2204	Architectural Design II	6
AR 2304	Structural Design	3
AR 2305	History of Architecture II	3
BG 2001	English IV	3
	Total	18

Code	Subjects	Credits
AR 3107	Building Environmental Control II	3
AR 3200	Theory and Concept in Architectur	e 3
AR 3207	Architectural Design IV	6
AR 3208	Building Technology and	
	Construction IV	3
AR 3310	Fundamentals of Site and	
	Landscape Planning	3
	Total	18



FOURTH YEAR

First Semester

Code	Subjects	Credits
AR 4101	History of Thai Architecture	3
AR 4203	Architectural Design V	6
AR 4301	Fundamentals of Urban and	
	Regional Planning	3
AR 4302	Seminar in Architecture	3
	Total	15

Second Semester

Code	Subjects	Credits	
	· · · · · · · · · · · · · · · · · · ·		
AR 4106	Methods of Research and D	ata	
	Processing	3	
AR 4205	Architectural Design VI	6	
AR 4303	Practicum in Architecture		
	(240 Hours)	Non-Credit	
	One Free Elective Course	3	
	One Major Elective Course	3	
		OM	

Total

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FIFTH YEAR

First Semester

Code	Subjects	Credits
AR 5200	Pre-Thesis in Architecture	3
AR 5203	Architectural Design VII	3
	One Free Elective Course	3
	One Major Elective Course	3
	Total	15

Code	Subjects	Credits
AR 5205 AR 5300	Thesis in Architecture Professional Ethics and Practices	9 3
	Total	12



DEPARTMENT OF INTERIOR ARCHITECTURE

OBJECTIVES

To produce graduates who have the characteristics, knowledge and skills as follows:

- Develop moral character and possess professional ethics accepted and approved by the society.
- Understand interior architecture theories and possess techniques developed through the systematic and efficient creative thinking process as well as professional responsibility sufficient to assume the role of interior architects in the development of industry, society and the country.
- Able to innovate and transform creative concepts through systematic analysis and considerations of related theories to the spatial visualization.
- Able to render interior architecture services in the milieu of science and technology while adhering to preservation of arts and culture.
- Able to contribute to a team work among designers and others with the same level of competency and aspiration in order to function creatively while maintaining a healthy competitive environment.
- Have creativity and presentation skills via computer applications and logical schema.
- Have dexterity in freehand drawing, interior architecture drafting, delineation and three dimensional model making.

COURSES

A. General Ec Language Co	ducation Courses ourses	30 Cred 15 Cred	
BG 1001 BG 1002 BG 2000 BG 2001 GE 1403	English I English II English III English IV Communication in Thai		3 3 3 3 3 3
or GE 1401	Language and Communicat (For International Students)	ion Skills	3
Social Scienc	e Courses	3 Cred	its
MGT 1101	Introduction to Business		3
Humanities (Courses	6 Cred	its
GS 1004 GS 1005	Art of Delineation Graphic Presentation		3 3
Science and	Mathematics Courses	6 Cred	its
GS 1008 GE 1301	Applied Mathematics Environmental Science		3 3
B. Specialized Core Courses		129 Cred 36 Cred	
 AR 1102	Visual Studies and Communi	cation	3
AR 1102	Fundamentals of Architectural		3
		Design	-
AR 1106	Architectural Drawing		3
AR 1107	Introduction to Creative Cult	ture	3
AR 2106	History of Architecture I		3
AR 2109	Building Technology and		~
10 2110	Construction I		3
AR 2110	Building Technology and		~
10 2101	Construction II		3
AR 3101	Introduction to Computer –		-
	Aided Design		3
AR 3106	Building Environmental Con		3
AR 3107	Building Environmental Con	trol II	3
AR 4101	History of Thai Architecture		3
IN 4102	Methods of Research and		

Data Processing

3



Major Required Courses		57 Credits
IN 2202	Interior Architectural Design I	6
IN 2204	Interior Architectural Design II	6
IN 3200	Theory and Concept in Interior	
	Architecture	3
IN 3203	Interior Architectural Design III	6
IN 3207	Interior Architectural Design IV	6
IN 4203	Interior Architectural Design V	6
IN 4205	Interior Architectural Design VI	6
IN 5200	Pre-Thesis in Interior Architectu	ure 3
IN 5203	Interior Architectural Design VI	1 6
IN 5205	Thesis in Interior Architecture	9

Major Elect	ive Courses 6 Cr	edits
IN 5400	Elements of Thai Architecture	3
IN 5401	Interior Architecture Cost	
	Estimation and Control	3
IN 5403	Advanced Computer - Aided Design	n 3
IN 5404	Individual Study in Architecture	3
IN 5411	Advanced Lighting	3
IN 5413	Facilities Management	3
IN 5415	Fabric design and Applications	3
IN 5416	Introduction to Exhibition Design	3
IN 5417	Arts Appreciation	3

Minor Required Courses

30 Credits

IN 2305	Interior Architectural Design	
	Methods	3
IN 2306	History of Interior Architecture	3
IN 3301	Interior Construction Technology I	3
IN 3303	Interior Construction Technology II	3
IN 3304	Lighting Design	3
IN 3305	Furniture Design	3
IN 3306	Interior Material Application	3
IN 4304	Practicum in Interior Architecture	
	(240 Hours) Non-cr	edit
IN 4305	Seminar in Interior Architecture	3
IN 4306	Furniture Production Method	3
IN 5300	Professional Ethics and Practices	3

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits which are offered by their faculty or by different faculties upon completion of the prerequisites.

STUDY PLAN

FIRST YEAR First Semester

This Semester

Code	Subjects Ci	redits
AR 1102	Visual Studies and Communication	3
AR 1106	Architectural Drawing	3
BG 1001	English I	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication Skil (For International Students)	lls
GS 1004	Arts of Delineation	3
GS 1008	Applied Mathematics	3
	Total	18

Code	Subjects	Credits
AR 1104	Fundamentals of Architectural	
	Design	3
AR 1107	Introduction to Creative Culture	3
BG 1002	English II	3
GE 1301	Environmental Science	3
GS 1005	Graphic Presentation	3
MGT 1101	Introduction to Business	3
	Total	18



SECOND YEAR First Semester

Code	Subjects Crea	dits
AR 2106	History of Architecture I	3
AR 2109	Building Technology and	
	Construction I	3
BG 2000	English III	3
IN 2202	Interior Architectural Design I	6
IN 2305	Interior Architectural Design Methods	3
	Total	18

THIRD YEAR First Semester

Code	Subjects	Credits
AR 3106	Building Environmental Control I	3
IN 3200	Theory and Concept in Interior	
	Architecture	3
IN 3203	Interior Architectural Design III	6
IN 3301	Interior Construction Technology	I 3
IN 3306	Interior Material Application	3
	Total	18

Second Semester

Code	Subjects	Credits
AR 2110	Building Technology and	
	Construction II	3
AR 3101	Introduction to Computer –	
	Aided Design I	3
BG 2001	English IV	3
IN 2204	Interior Architectural Design II	6
IN 2306	History of Interior Architecture	3
	Total	18

Code	Subjects C	Credits
AR 3107	Building Environmental Control II	3
IN 3207	Interior Architectural Design IV	6
IN 3303	Interior Construction Technology	1 3
IN 3304	Lighting Design	3
IN 3305	Furniture Design	3
	Total	18



FOURTH YEAR

First Semester

Code	Subjects	Credits
AR 4101	History of Thai Architecture	3
IN 4203	Interior Architectural Design V	6
IN 4305	Seminar in Interior Architecture	3
IN 4306	Furniture Production Methods	3
	Total	15

Second Semester

Code	Subjects		Credits
IN 4102	Methods of Research and [Data	
	Processing		3
IN 4205	Interior Architectural Desig	in VI	6
IN 4304	Practicum in Interior		
	Architecture (240 Hours)	No	n-Credit
	One Free Elective Course		3
	One Major Elective Course		3
	Total		15

FIFTH YEAR

First Semester

Code	Subjects	Credits
IN 5200	Pre-Thesis in Interior Architecture	3
IN 5203	Interior Architectural Design VII	6
	One Free Elective Course	3
	One Major Elective Course	3
	Total	15

Code	Subjects	Credits
IN 5205 IN 5300	Thesis in Interior Architecture Professional Ethics and Practices	9 3
	Total	12





DEPARTMENT OF INTERIOR DESIGN

Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- Develop moral character and possess professional ethics accepted and approved by the society.
- Possess interior design theoretical knowledge, technical skills, entrepreneurial drive, and professional responsibility sufficient to assume leadership positions in the industry, society and the country.
- Confident in rendering interior design services in the milieu of science and technology while adhering to
 preservation of arts and culture.
- Know how to contribute to a team working among designers and others with the same level of competency
 and aspiration in order to function creatively while maintaining a healthy competitive environment.
- · Have creativity and presentation skills via computer applications and logical schema.
- Have dexterity in freehand drawing, interior design drafting, delineation and 3 dimensional model making.

COURSES

A Coporal E	ducation Courses	30 Credits
Language C		15 Credits
BG 1001	English I	3
BG 1002	English II	3
BG 2000	English III	3
BG 2001	English IV	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	on Skills
	(For International Students)	3
Social Scien	ce Courses	3 Credits
MGT 1101	Introduction to Business	3
Humanities	Humanities Courses	
GS 1004	Art of Delineation	3
GS 1005	Graphic Presentation	3
Science and	Mathematics Courses	6 Credits
BG 1200	Mathematics for Business	3
GE 1301	Environmental Science	3
A. Specialize	ed Courses	101 Credits
Core Course		18 Credits
IND 1101	Visual Design	3
IND 1102	Introduction to Design Cultu	
	and Trend	3
IND 2101	Design Methods	3
IND 2102	Human Factors	3
IND 3101	Theory and Concept in Desig	
IND 3102	Design Research and Develop	ment 3

Major Requ	iired Courses 8	0 Credits
IND 1301	Basic Drawing	3
IND 1302	Design Fundamentals	3
IND 1303	Computer Applications for	
	Interior Design	3
IND 2201	Interior Design I	6
IND 2202	Interior Design II	6
IND 2301	History of Interior Design	3
IND 2302	Building Construction	3
IND 2303	Furniture Production and	
	Fabrication Technology	3
IND 3201	Interior Design III	6
IND 3202	Interior Design IV	6
IND 3301	Interior Construction	3
IND 3302	Interior Material and Technology	y 3
IND 3303	Building System Study	3
IND 3304	Interior Design Proposal and	
	Marketing	3
IND 3305	Practicum in Interior Design	2
IND 3306	Lighting Design	3
IND 4201	Interior Design V	6
IND 4202	Senior Project	6
IND 4301	Design Management	3
IND 4302	Individual Study in Interior Desig	gn 3
IND 4303	Professional Ethics and Practice	3



Major Elect	Major Elective Courses 3 Cr	
IND 4401	Seminar in Interior Design	3
IND 4402	Advanced Computer-Aided Desig	gn 3
IND 4403	Model Making and 3D Exploratio	n 3
IND 4404	Home Textiles and Soft Furnishin	g 3
IND 4405	Thai Architecture Study	3
IND 4406	Advanced Lighting	3
IND 4407	Decorative Art	3
C. Free Elec	tive Courses 6	Credits

Students can take free elective courses of 6 credits

from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

FIRST YEAR

First Semester

Code	Subjects	Credits
BG 1001	English I	- 3
BG 1200	Mathematics for Business	3
GE 1403	Communication in Thai	3
or GE 1401	Language and Communication	n Skills
	(For International Students)	3
GS 1004	Art of Delineation	3
IND 1101	Visual Design	3
IND 1301	Basic Drawing	3
	Total	- 18

Code	Subjects	Credits
BG 1002	English II	3
GE 1301	Environmental Science	3
GS 1005	Graphic Presentation	3
IND 1102	Introduction to Design Culture	
	and Trend	3
IND 1302	Design Fundamentals	3
IND 1303	Computer Application for Interio	r
	Design	3
	Total	18



SECOND YEAR

First Semester

Code	Subjects	Credits
BG 2000	English III	3
MGT 1101	Introduction to Business	3
IND 2101	Design Methods	3
IND 2201	Interior Design I	6
IND 2301	History of Interior Design	3
	Total	18

Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
IND 2102	Human Factors	3
IND 2202	Interior Design II	6
IND 2302	Building Construction	3
IND 2303	Furniture Production and	
	Fabrication Technology	3
	Total	18

THIRD YEAR

First Semester

Code	Subjects	Credits
IND 3101	Theory and Concept in Design	3
IND 3201	Interior Design III	6
IND 3301	Interior Construction	3
IND 3302	Interior Material and Technology	3
IND 3303	Building System Study	3
	Total	18

Code	Subjects	Credits
IND 3102	Design Research and	
	Development	3
IND 3202	Interior Design IV	6
IND 3304	Interior Design Proposal and Marketin	g 3
IND 3305	Practicum in Interior Design	2
IND 3306	Lighting Design	3
	One Free Elective Course	3
	Total	20



FOURTH YEAR

First Semester

Code	Subjects	Credits
IND 4201	Interior Design V	6
IND 4301	Design Management	3
IND 4302	Individual Study in Interior Design	ר ו 3
	One Major Elective Course	3
	Total	15

Code	Subjects	Credits
IND 4202	Senior Project	6
IND 4303	Professional Ethics and Practice	3
	One Free Elective Course	3
	Total	12





DEPARTMENT OF PRODUCT DESIGN

Objectives:

To produce graduates who have the characteristics, knowledge and skills as follows:

- 1. Possess personal, professional, and environmental ethics accepted and approved by the society.
- 2. Possess product design theoretical knowledge, technical skills, business navigation ability, and professional responsibility sufficient to assume leadership positions in the industry, society and the country.
- 3. Confident in rendering product design services achieved through creative thinking, problem solving, numerical analysis, and appropriate psychomotor skills in the milieu of science and technology while adhering to preservation of arts and culture.
- 4. Possess interpersonal skills and communication skills through the use of information technology, verbal and graphical tools necessary in collaborative environments.

COURSES

<u></u>		
lucation Courses	30 Credits	PD 1301
ourses	15 Credits	PD 1302
		PD 1303
3		
5		PD 2201
3		PD 2202
5		PD 2301
	-	PD 2302
Language and Communicati	ion Skills	PD 2303
(For International Students)	×20 3	PD 3201
		PD 3202
e Courses	3 Credits	PD 3301
Introduction to Business	3	PD 3302
Courses	6 Credits	PD 3303
Art of Delineation	3	PD 3304
Graphic Presentation	3	
·		PD 3305
Mathematics Courses	6 Credits	PD 4201
		PD 4202
Mathematics for Business	3	PD 4301
Environmental Science	3	PD 4302
		PD 4303
d Courses	101 Credits	
5	18 Credits	
Visual Design	3	
5	ıre	
and Trend	3	
Design Methods	3	
Human Factors	3	
	gn 3	
Theory and Concept in Desig	gn 3	
	English I English I English II English II English IV Communication in Thai Language and Communicati (For International Students) e Courses Introduction to Business Courses Art of Delineation Graphic Presentation Mathematics for Business Environmental Science Courses Visual Design Introduction to Design Cultu and Trend Design Methods Human Factors	nurses15 CreditsEnglish I3English II3English III3English IV3Communication in Thai3Language and Communication Skills (For International Students)3e Courses3 CreditsIntroduction to Business3Courses6 CreditsArt of Delineation3Graphic Presentation3Mathematics Courses6 CreditsMathematics for Business3Environmental Science3Courses101 CreditsIntroduction to Design Culture and Trend3Design Methods3Human Factors3

Major Requir	ed Courses	77 Credits
PD 1301	Technical Drawing	3
PD 1302	Design Principles	3
PD 1303	Computer Applications for	
	Product Design	3
PD 2201	Product Design I	6
PD 2202	Product Design II	6
PD 2301	Model Making	3
PD 2302	History of Art and Design	3
PD 2303	History of Product Design	3
PD 3201	Product Design III	6
PD 3202	Product Design IV	6
PD 3301	Material and Manufacturing	
	Processes I	3
PD 3302	Material and Manufacturing	
	Processes II	3
PD 3303	Product Design and Marketing	1
	Principles	3
PD 3304	Product Design and Marketing	J
	Communication	3
PD 3305	Practicum in Product Design	2
PD 4201	Product Design V	6
PD 4202	Senior Project	6
PD 4301	Individual Study in Product De	0
PD 4302	Design in Emerging Market	3
PD 4303	Professional Ethics	3



Major Elective Courses		6 Credits
PD 3401	User Interface Design	3
PD 3402	Graphic and Packaging Design	3
PD 3403	Experience Design for Exhibition	ns 3
PD 3404	Fashion and Textile Design	3
PD 3405	Jewelry Design	3
PD 3406	Toy and Play Design	3

C. Free Elective Courses

6 Credits

Students can take free elective courses of 6 credits from any faculty in Assumption University upon completion of the prerequisites (if any).

STUDY PLAN

FIRST YEAR **First Semester** Code Subjects Credits BG 1001 English I 3 BG 1200 Mathematics for Business 3 GE 1403 Communication in Thai 3 or GE 1401 Language and Communication Skills (For International Students) GS 1004 Art of Delineation 3 IND 1101 Visual Design PD 1301 **Technical Drawing** 3 18

Total

Credits
3
3
3
3
3
t
3
18



SECOND YEAR First Semester

Code	Subjects	Credits
BG 2000	English III	3
IND 2101	Design Methods	3
PD 2201	Product Design I	6
PD 2301	Model Making	3
PD 2302	History of Art and Design	3
	Total	18

THIRD YEAR First Semester

Code	Subjects	Credits
IND 3101	Theory and Concept in Design	3
PD 3201	Product Design III	6
PD 3301	Material and Manufacturing	
	Process I	3
PD 3303	Product Design and Marketing	
	Principles	3
	One Major Elective Course	3
	Total	18

Second Semester

Code	Subjects	Credits
BG 2001	English IV	3
IND 2102	Human Factors	3
PD 2202	Product Design II	6
PD 2303	History of Product Design	3
MGT 1101	Introduction to Business	3
	Total	18

Code	Subjects	Credits
IND 3102	Design Research and Developmer	nt 3
PD 3202	Product Design IV	6
PD 3302	Material and Manufacturing	
	Processes II	3
PD 3304	Product Design and Marketing	
	Communication	3
PD 3305	Practicum in Product Design	2
	One Major Elective Course	3
	Total	20



FOURTH YEAR

First Semester

i ii se seriie.	list Semester						
Code	Subjects	Credits	Code	Subjects	Credits		
PD 4201 PD 4301 PD 4302	Product Design V Individual Study in Product Desig Design in Emerging Market	6 jn 3 3	PD 4202 PD 4303		6 3 3		
	One Free Elective Course	15	RS/7	Total	12		
	Total						



Institute for English Language Education (IELE)

The IELE at Assumption University of Thailand envisions itself as the leading institute in English language education and research in Thailand known for its excellence with:

- qualified and professional instructors
- motivated and proficient students
- state-of-the-art courses and technologies
- an international teaching and learning environment

IELE VISION AND MISSION STATEMENTS

The IELE envisions Assumption University students as individuals who:

- Are linguistically competent and able to communicate effectively in English both in speech and in writing;
- Constantly seek to improve their English language competency;
- Are able to think critically and use English to perform successfully in society;
- Are able to function effectively in a multicultural society and professional environment.

The English courses offered by the IELE aim to enable the students:

- to acquire English language skills in reading, writing, listening and speaking
- to be exposed to World Englishes
- to be able to function successfully in a multicultural environment using English.



Assumption University of Thailand | Institute for English Language Education (IELE)

COURSES OFFERED

Intensive English Program (IEP)	0 credit
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A preparatory English course for incoming freshman students exposing them to a variety of texts and patterns, while focusing on grammar and usage, in order to better prepare and place them in further English language courses.

BG 0001, BG 0003Basic English I 0 credit

A foundation course developing basic language skills, adjusted to accommodate the learning pace of students with various English language backgrounds, as part of an environment that fosters creative and communicative learning to prepare the students for academic English language courses.

BG 0002	Basic English II	0 credit

A foundation course developing basic language competence as part of an environment that fosters creative and communicative learning to prepare the students for academic English language courses.

BG 1001	English I	3 credits

Lower intermediate academic English, with activities to foster reading, writing, listening and speaking skills in English through communicative activities in a meaningful academic context.

Prerequisite: BG 1001 English I

Intermediate academic English, reinforcing fluency and grammar with task-driven oral and writing exercises, developing vocabulary and sentence writing skills with combined reading comprehension exercises and writing practice.

BG 2000 English III 3 credits

Prerequisite: BG 1002 English II

Advanced English for academic and career purposes, emphasizing organization of ideas and clarity of expression and understanding.

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BG 2001	English IV	3 credits
002001	Englishin	Jercuits

Prerequisite: BG 2000 English III

Advanced English for academic and career purposes, emphasizing critical and analytical skills, and formulating logical and coherent opinions.



Course Description Academic Year 2015

Fundamentals of Financial Accounting
For Martin de Tours School of Management Students

ACT 1600

Prerequisite:

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3 Credits

3 Credits

Basic accounting conceptual framework, theory and procedures, definition, purpose, usefulness, limitation of accounting information including analysis of business transactions, using basic double-entry system in recording process to complete the accounting cycle: journalizing, posting to the ledgers and preparation of trial balance, adjusting entries, worksheets and closing entries, as well as special journals and preparation of basic financial statements and also including basic accounting theory pertaining to accounting for service and merchandising firms: cash, receivable, merchandise inventory, plant assets, natural resources, intangible assets, investments, liabilities, owner's equity, and principle of voucher system

ACT 1601 Fundamentals of Financial Accounting		3 Credits								
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Pacia accounting	theory and	procedures for	comico and	manusch an disin a	6 upp a	laur main a	daubla	o la hur i	au lata na	

Basic accounting theory and procedures for service and merchandising firms by using double-entry system, completing accounting process: journalizing, posting to the ledgers, preparation of trial balance, adjusting entries, worksheet and closing entries, as well as preparation and presentation of basic financial statements.

ACT 1602	Fundamentals of Financial Accounting I	3 Credits
Prerequisite:	For Science & Technology Students	

Basic accounting theory and procedures for service and merchandising firms by using double-entry system, completing accounting process: journalizing, posting to the ledgers, preparation of trial balance, adjusting entries, worksheet and closing entries, as well as preparation and presentation of basic financial statements.

ACT 1603	Fundamentals of Financial Accounting II	3 Credits
Prerequisite:	ACT 1602 Fundamentals of Financial Accounting I	
	(For Science & Technology Students)	

Basic accounting theory pertaining to accounting for cash, receivable, merchandise inventory, plant assets, natural resources, intangible assets, investments, liabilities, owner's equity, principle and method of voucher system, as well as financial statements to portray corporate financial position, operating results, cash flows, and financial strength.

ACT 2620	Fundamentals of Managerial Accounting	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Role that managerial accounting plays in servicing informational needs of managers in planning, organizing and controlling through study of systematic structuring of business decisions and identifying the information relevant to decision making, profit planning, cost-volume-profit analysis, responsibility accounting , preparation statement of cash flows and segment report

ACT 3602	Intermediate Accounting I	
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accounting conceptual framework, accounting principles, practices and problems of accounting for assets: definition, classification, recognition, measurements, valuation, impairment of assets, presentation and disclosure of assets in statement of financial position, accounting for cash, marketable securities, notes receivable, accounts receivable, merchandise inventory, investments, tangible and intangible assets, natural resources, different methods of depreciation, difference between capital and revenue expenditure, and preparation and presentation of financial statements in detail and good format

ACT 3603	Intermediate Accounting II	3 Credits
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accounting principles and practices in accounting for current liabilities, non-current liabilities and owner's equity: definition, classification, recognition, measurements, valuation, presentation and disclosure on financial statements, accounting for partnership: organization, operation, dissolution, liquidation, financial statements preparation and presentation, accounting for corporation: organization, issuance of stock, increase and decrease of capital, additional paid-in capital, earnings per share, retained earnings, appropriated retained earnings, liquidation, and statements of change in shareholders' equity and retained earnings statement preparation and presentation, accounting for employee benefits, and accounting for lease

ACT 3606 Prerequisite: Public Sector and Fund Accounting ACT 1600 Fundamentals of Financial Accounting

3 Credits

System and procedure of governmental and state enterprise accounting, national budget system, government's financial management, national budget, financial funds, governmental and fund accounting systems, controlling function of the National Audit Council and the Comptroller General Department, national financial statements, accounting of municipalities and other government agencies, state enterprise accounting, fund accounting of foundations, and educational institutions

ACT 3608	Financial Report and Financial Statement Analysis	3 Credits
Prerequisites:	ACT 2620 Fundamentals of Managerial Accounting	
	FIN 3701 Corporate Finance	

Reading and interpreting financial statements, analyzing, criticizing departmental financial matters, stockholders' equity, investment, capital expansion, and division of profit, analysis and interpretation of financial statements, techniques employed in financial statement analysis, presentation of reports to stockholders and interested public, the principles employed in analyzing assets from the viewpoint of investment, profitability and other factors that affect price of securities, forecasting and analysis of security market environment, and critical problem solving

ACT 3614	Taxation I	3 Credits
Prerequisite:	BG 1401 Business Law II	

Factors relating to taxes paid by individuals and business enterprises: principles and features of taxation according to Revenue Codes; methods of various tax liability appraisal and collection such as personal income tax, corporate tax, business tax, custom, excise tax, duties and stamps, and other kinds of taxes involved in business

ACT 3615	Taxation II	3 Credits
Prerequisites:	ACT 1600 Fundamentals of Financial Accounting	
	ACT 3614 Taxation I	

Types of business firms that must prepare accounting in compliance with law and regulations of Revenue Codes including the comparative study of preparing accounting based on Generally Accepted Accounting Principles and based on Revenue Codes, principles for determining income tax for both personal and corporate income taxes, withholding tax, value added tax, special business tax, custom, excise tax, duties and stamps, accounting principles for taxable revenue and expense, including valuation of assets and liabilities, and depreciation in calculation of taxable income and practical problems related to tax accounting

ACT 3622	Cost Accounting	3 Credits
Prerequisite:	ACT 2620 Fundamentals of Managerial Accounting	

Cost concepts, cost terms, definition, importance and usefulness of cost accounting information for planning and controlling under certain and uncertain circumstances, cost accumulation, techniques in cost analysis, preparing production cost reports, accounting procedures for raw materials, labor and overhead costs as well as various cost accounting approaches: job-order accounting, process costing, joint-product and by-product costs, spoilage, waste, defect, and scrap, cost control by means of standard costs; analysis of variances; cost volume profit relationship; variable costing system; budgeting and planning; pricing and transfer price; and activity base costing

ACT 3623	Cost Management	3 Credits
Prerequisite:	ACT 3622 Cost Accounting	

Cost concepts and scope of using cost accounting information for managerial planning and production control, analysis of costs for decision-making, including the use of such information for product pricing, mixed cost, absorption costing, direct costing, variable cost, fixed cost, cost volume-profit analysis, variance analysis, performance evaluation, transfer pricing, capital expenditure planning, manufacturing expenses control, measurement and control of various work units

ACT 3624	Real Estate Accounting	3 Credits
Prerequisite:	ACT 3622 Cost Accounting	

Accumulation and selection of data; record analysis, and preparation in report format to conform to real estate accounting standard, laws and other pertinent laws of Thailand for investors, investment firms, housing projects, speculators, real estate agencies, condominium cooperatives, real estate developers and financial institution real estate portfolios, various expense allocation systems, analysis of variances against projected expenditures, including use of the case method

Accumulating, recording, interpreting accounting data and preparation of reports on various hospital procedures (including medical service functions and institutions such as polyclinics and nursing homes) both for the public and private sectors of hospitals, and rules and regulations governing the accounting of health services in Thailand

ACT 3626	Hotel Accounting	
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	

Accumulation of data and preparation of reports on the performance of various hotel functions: room rentals, food and beverage, including indoor, banquet and outdoor catering, entertainment, laundry and other services, foreign exchange, arcade rental income and other franchise income such as limousine rentals, parking, exhibition stalls, sauna and health clubs, massage parlors, sports centers, control systems, periodical performance appraisals and analysis of variances for corrective action

ACT 3629	Profit Planning and Control	3 Credits
Prerequisite:	ACT 2620 Fundamentals of Managerial Accounting	

Process in preparing budgets for managerial planning and control: procedures for various types of budgets such as cash budgeting, capital budgeting, sales budgets, production budgets, interrelationship among budgets, cost-volume-profit analysis and other related topics

ACT 3643	Auditing	3 Credits
Prerequisite:	ACT 3602 Intermediate Accounting I	
or	ACT 3603 Intermediate Accounting II	

Auditing conceptual framework, standards, law and professional acts, roles and responsibilities of external auditors, accepting auditing jobs, professional ethics and accountability, audit planning, fraud and errors in auditing process, auditing reports and procedures: assets, liabilities, owners' equity, revenue and expenses, internal control, risk assessments, risk control as well as audit decision making and evidence accumulation, preparation of working paper, auditor's report, and guidelines on auditing by computer

ACT 3644	Internal Control and Audit
Prerequisite:	ACT 3602 Intermediate Accounting I
or	ACT 3603 Intermediate Accounting II

Performance of an internal audit in terms of an independent appraisal function which serves to examine and evaluate the adequacy and effectiveness of an organization's system on internal control and its overall quality of performance, furnishing top management with analysis, appraisals, recommendations, counsel, and information concerning the activities audited, internal auditing process, internal auditing skills, management control and information technology, and audit environment

ACT 4605	International Accounting	
Prerequisite:	ACT 1600 Fundamentals of Financial Accounting	
	ACT 2620 Fundamentals of Managerial Accounting	

Accumulation and recording of accounting data for business firms with multinational presence, including analysis and reporting of these by function, products, product lines and by country/location for proper presentation of operational results to top management, and update of International Financial Reporting Standard- -IFRS, interpretation of IFRS and accounting applied in Asian countries

ACT 4607	Advanced Accounting I
Prerequisites:	ACT 3602 Intermediate Accounting I
	ACT 3603 Intermediate Accounting II

Specific accounting procedures: joint venture, consignment sale, installment sale, real estate, construction contract, funds accounting, not for profits organization, home office and branch accounting for both domestic and foreign countries, accounting procedures regarding currency exchange, accounting policy, change in accounting estimate, correction of errors, and preparation of financial statements from incomplete records

3 Credits

3 Credits

3 Credits

3 Credits

3 Credits

ACT 4608 Prerequisites:

Advanced Accounting II ACT 3602 Intermediate Accounting I ACT 3603 Intermediate Accounting II

Accounting principles and methods for business combination, investment in associated and subsidiary companies, preparation of consolidated financial statements, statement of realization and liquidation, accounting for statement of affairs, receiverships, accounting for foreign currency translation, accounting for trouble debt restructuring, preparation statement of change in stockholders' equity, comprehensive income statements, and statement of cash flows for both separated and consolidated statements

3 Credits

3 Credits

ACT 4609	Accounting Theory
Prerequisites:	ACT 3602 Intermediate Accounting I
	ACT 3603 Intermediate Accounting II

Evolution, structure, and concept of accounting, emphasis on comprehensive theories with reference to design of holistic accounting systems, definitions and nature of the accounting and accounting theories, theory verification, accounting history, alternative accounting theories and the role of theories in financial accounting and standard setting in assets, liabilities, owner's equity, revenues including information disclosure in financial statements preparation

ACT 4611	Seminar in Accounting	3 Credits
Prerequisite:	ACT 4607 Advanced Accounting I	

Discussion and analysis of using accounting conceptual framework and standards as guidelines for practice, contemporary, new, current, interesting accounting issues, updating new accounting standards, rules, regulations related to generally accepted accounting principles in both international and national levels, concepts and principles of code of conduct, code of best practice, and code of accounting professional ethics, practical problems in field of financial accounting, managerial accounting and related field, using case study, academic paper, article, and field research

ACT 4612	Independent Study	3 Credits
Prerequisite:	Senior standing (Accounting Major)	

Application of theoretical concepts to the real problems of any organization in a selected industry in Thailand. A specific area of concentration will be chosen by students upon consultation with an instructor in the Department of Accounting. A written report must be submitted and a presentation must be made

ACT 4624	Seminar in Management Accounting	3 Credits
Prerequisite:	ACT 3623 Cost Management	

Problems concerning the cost accounting system design, relationship, understanding, and cooperation from other work units involved in data collection and analysis for the purpose of designing a cost accounting system, as well as problems arising from the application of cost accounting concepts to various work systems

ACT 4641	Problems in Auditing	3 Credits
Prerequisite:	ACT 3643 Auditing	

Practices and problems in auditing, use of accounting principles in auditing financial statements, patterns for different types of industries, and statements of certified public accountant institutes that often raise important problems for accountants to consider, using case study analysis in teaching and learning

ACT 4643	Seminar in Auditing	3 Credits
Prerequisite:	ACT 4641 Problems in Auditing	

Review of auditing problems, principles and practices in auditing accounts, legal aspects in auditing, and other related topics including the current issues related to auditing

ACT 4646	Accounting Information Systems	3 Credits
Prerequisites:	ACT 3643 Auditing ACT 3644 Internal Control and Audit	

Nature, elements and procedures of the accounting information system including the rational data base concepts and design, system development and documentary techniques as well as the computer based information systems controls, computer fraud and its security, the design of data flow diagrams and system flowchart, accounting cycle of various transactions such as revenue, expenditure and production cycle, payroll cycle and reporting system

ACT 4647
Prerequisites:

Accounting Software Package ACT 4646 Accounting Information Systems BIS 2180 Information Technology

Utilization of computer software applications in accounting, including the systems of general ledger, budgeting, purchasing, selling, inventory, payroll, financial reporting and other means of reports, process of using software applications from the designing of the chart of accounts, entering data, as well as the construction of financial and management reports available for the needs of management for decision-making

ACT 4648	EDP Auditing	
Prerequisites:	ACT 3643 Auditing	
	BIS 2180 Information Technology	

Professional auditing work in terms of examining and analyzing computerized financial and non-financial operations in an enterprise to ensure the integrity and reliability of the computerized systems, understanding and appreciation of fundamental concepts of EDP audit, computer audit tools and techniques used in EDP audit, importance of control and audit of mini- and micro-computer systems, EDP controls, and concurrent auditing techniques.

ACT 4649	Accounting Internship (135 Hours)	3 Credits
Prerequisites:	Senior standing (Accounting Major)	
	Completion of at least 100 credits	

Accounting field work practice in organization of at least 135 hours, providing opportunity to students to gain knowledge and skills from the real-world of Accounting profession, application of accounting theory and concept, enhancing competencies in analyzing, synthesizing and problem solving in accounting profession under the actual situation

AD 3101	Principles of Marketing Communication	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

General characteristics in communication and marketing communication process, including the analysis of structure, principles, and the relations of advertising, public relations, sales promotion, sales personnel and independent marketing.

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AD 3102	Advertising Media Planning	3 Credits
Prerequisite:	CA 2018 Consumer Insight	

Media selection that focuses on the quality and benefit of media suited to the purpose, types of target audience, timing and media cost in buying efficiently, including survey of strategies of advertising media planning, creative media purchase, evaluation of assessment, frequency and rates to reach the target audience, and market share.

AD 3103	Advertising Creative Strategy	3 Credits
Prerequisite:	CA 2018 Consumer Insight	

Communication management and creation of advertisement for print, radio and television broadcasting, development of advertising from definition to creation of advertising strategy, from creative strategy to advertising execution with emphasis on print, radio, television, film and poster.

AD 3106 Prerequisite:	Art Direction CA 2004 Introduction to Advertising	3 Credits
	ent of basic art skills, its impact in terms of color combination, layou h print and TV on effective advertising.	t format, typography and
AD 3112 Prerequisite:	Brand Communication AD 3101 Principles of Marketing Communication	3 Credits
	of brand communication, brand positioning and repositioning, bra rated brand communications, including current topics of branding.	and equity measurement,
AD 3113 Prerequisite:	Customer Relationship Management AD 3101 Principles of Marketing Communication	3 Credits

Theories, practices, and applications of direct database and e-commerce marketing strategies, consumer and business-to-business marketing, integration of online and offline marketing strategies, and management of customer relationships.

3 Credits

3 Credits

AD 3114 Prerequisite:	Interactive Advertising and Marketing Communication CA 2004 Introduction to Advertising	3 Credits
Implementation of interact	ctive advertising and marketing communication, including the od to utilize the new media to gain interactivity which is an en	
AD 3115 Prerequisite:	International Communication Campaign CA 2004 Introduction to Advertising	3 Credits
Issues of international ar	nd cross cultural communication campaign, overview of cult ant to international communication.	tural, economic, legal, political
AD 3116 Prerequisite:	Account Planning CA 2004 Introduction to Advertising	3 Credits
Roles of account plannin	g in advertising agency in terms of aligning strategy througed documents such as advertising brief, presentation, and budge	
AD 3117 Prerequisite:	Advertising and Popular Culture CA 2004 Introduction to Advertising	3 Credits
Development of advertisi	ng in relations to culture and popular culture, ideologies an ling influence of advertising on consumers and vice versa.	d values based on cultural as-
AD 3118 Prerequisite:	Selected Topics in Advertising CA 2004 Introduction to Advertising	3 Credits
	f selected topics in advertising. The topic will be announced seme	ester by semester.
AD 3119 Prerequisite:	Advertising and Marketing Communication Research CA 3011 Communication Arts Research	3 Credits
Various roles of advertisin	ng and marketing communication research in advertising and odology and process, including conducting quantitative and	
AD 4100	Seminar in Advertising	3 Credits
Facts and conditions in re	elation to problems, concerns and ethical issues in advertisin nication tools, including analyzing the current situations and p ations.	
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AD 4101	Advertising Workshop 1	3 Credits
Prerequisites:	CA 3011 Communication Arts Research AD 3101 Principles of Marketing Communication	
Co-requisite:	AD 4104 Advertising and Marketing Communication Manag	gement
	d communication planning through the study of marketing tro tudents will be trained to work as advertising agency under the s	
AD 4102	Advertising Workshop II	3 Credits
Prerequisites:	CA 3011 Communication Arts Research	5 cicuits
	AD 4101 Advertising Workshop I	
Co-requisite:	AD 4115 Campaign Planning and Management	
	nigher level in producing advertisements based on the advertisin	
AD 4103 Prerequisite:	Creative Media Management AD 3102 Advertising Media Planning	3 Credits
Integration of various type	es of media, including traditional media and new media for a nanagement in digital era, especially the difficulties and cha	dvertising campaign, principles

AD 4104

..... Management of personal and non-personal communication in marketing process, functions of advertising agency and advertising and marketing communication departments of large business firms, accounts management, advertising presentation and operation of advertising and marketing communication effectiveness.

3 Credits

AD 4107 Prerequisite:	Basic Copywriting (Thai) AD3101 Principles of Marketing Communication	3 Credits	
Copywriting in Thai through analysis of effectiveness of advertisements in the media, significant characteristics of advertisements appropriately applied, and practice in the art of copywriting in Thai.			
AD 4108 Prerequisite: or	Basic Copywriting (English) AD3101 Principles of Marketing Communication MKT 2280 Principles of Marketing (For Marketing students)	3 Credits	
Copywriting in English throu	ugh analysis of effectiveness of advertisements in the media, significar ely applied, and practice in the art of copywriting in English.	t characteristics	
AD 4111 Prerequisite:	Advanced Brand Communication AD 3112 Brand Communication	3 Credits	
Analysis of branding issues a	and concepts arisen from problems with its improper usage in current organization and product level, brand equity, and brand communication str		
AD 4115 Prerequisite: Co-requisite:	Campaign Planning and Management AD 4104 Advertising and Marketing Communication Management AD 4102 Advertising Workshop II	3 Credits	
Planning and Management c	of advertising campaign planning, including integration of various comm elections and measurement of campaign effectiveness.	nunication tools,	
AD 4122 Prerequisite:	Direct Communication Campaign Management AD 3101 Principles of Marketing Communication	3 Credits	
Non-traditional formal channets to targeted consumers, method	els of advertising that is designed to present well-executed direct adver nods of direct communication that widens customer experience towards stomer value and to accomplish marketing success.		
AD 4123 Prerequisites:	Marketing Channel Communication CA 2004 Introduction to Advertising MKT 2280 Principles of Marketing	3 Credits	
Integration of various comm	unication processes and interactions between manufacturers and middl nel communication management, principles and practices of marketine dvertising campaign.		
AE 1101 Theory of Single-Engi	ne Flight	3 Credits	
Prerequisite	AE 1100 Single-Engine – Ground		
Pilot's Operation Handbook Leave Training Area, Pattern	(POH), Standard Operating Procedure (SOP), Checklist, Preflight In: T/G, Taxi Check, NAV Check, Turn and Slip Check, Flight Control Chec F, Flight Plan, NOTAM before Flight		
AE 1100	Core Flying: Single-Engine Flight – Ground	3 credits	
	perations, cross-country planning, airspace, chart use, commu ce, weight and balance, aerodynamics, and decision-making.		
AE 1200 Prerequisite or Co-requisite:	Core Flying: Single-Engine Flight - Flight AE 1100 Core-Flying: Single-Engine Flight – Ground	2 credits	

Flying practice to be done according to AE 1100 Core Flying: Single-Engine Flight - Ground

AE 1910	Problem-based Training in Aircraft Maintenance I	1 credit
Skill training on the aeronaution	c engineering and training at the actual work site.	
AE 1911	Problem-based Training in Aircraft Maintenance II	1 credit
Skill training on the aeronaution	c engineering and training at the actual work site.	
AE 1920	Problem-based Training in Aircraft Maintenance III	1 credit
	c engineering and training on the actual work site.	
AE 2100 Prerequisite:	Basic Flying: Single/Multi-Engine - Ground AE 1100 Core-Flying: Single-Engine Flight–Ground	3 credits
	s, safety, operations, navigation systems, chart use, weather, t anagement.	flight planning, decision-
AE 2200 Prerequisite:	Basic Flying: Single/Multi-Engine-Flight I AE 1200 Core Flying: Single-Engine-Flight	1 credit
	rding to AE 2100 Basic Flying: Single/Multi-Engine – Ground	
	Basic Flying: Single/Multi-Engine-Flight II AE 2200 Basic Flying: Single/Multi-Engine-Flight I AE 2202 Basic Flying: Multi-Engine Operations	3 credits
	procedures required for instrument flight test in order to be e	ndorsed with instrument
AE 2202 Prerequisite:	Basic Flying: Multi-Engine Operations AE 1100 Core Flying: Single-Engine Flight – Ground	2 credits
	ngine aerodynamics, maneuvers and procedures, engine-out c ision-making.	operations, safety, opera-
AE 2203 Prerequisite:	Basic Flying: Operational Procedures AE 1100 Core Flying: Single-Engine Flight – Ground	1 credit
Operational procedures relat	ed to the safe operations of flight, operational procedures pre and international aviation law.	scribed in ICAO annex 6
AE 2300 Prerequisite:	Basic Flying: Flight Communications AE 1100 Core Flying: Single-Engine Flight – Ground	1 credit
Radio Telephony (RT) comm	unications which lie at the base of procedural flying in the pr gies and terminologies used in international aviation environment.	
AE 2401 Prerequisite:	Basic Flying: Air Law AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
	S1 and ICAO documents and annexes relevant to international	l conventions and agree-
AE 2402 Prerequisite:	English for Aviation AE 1100 Core Flying: Single-Engine Flight- Ground AE 2100 Basic Flying: Single/ Multi-Engine - Ground AE 2300 Basic Flying: Flight Communications	3 credits

and Flight Operations Manual, practice of ATC and radiotelephony exchange, the functionally created statements, questions and responses in English as required by the nature of the job and responsibility in both oral and written forms, including communication in English with ATC by using correct structures and pronunciation patterns in order to be understood by both native and non-native speakers of English.

AE 2501	Maintenance English I	1 credit
	English which is used in maintenance, and technical terms for mainte	nance.
AE 2502	Maintenance English II	1 credit
	intenance related to components and systems of aircraft, readin ents.	g of technical document
AE 2700	Fundamental Aircraft: Propulsion Theory	2 credits
Introduction to basic fun	damental theory of aerospace propulsion system, background in pulsion systems for aerospace applications to design, developme ns.	
AE 2701	Fundamental Aircraft: Aircraft Engine	3 credits
Basic fundamental theory piston and gas turbine e	y of piston and gas turbine engine, thermodynamics, mathematic engine, the working cycle of this heat engine, Basic Gas Turbine rgy and Cooling ,Gas Turbine Main Auxiliaries, Gas Turbine Safet rbine Maintenance.	e Design, Gas Turbine As
AE 2702	Fundamental Aircraft: Aerodynamics	2 credits
	ion, namely fluid dynamics, introduction to flight, flight dynamics I.	, types of aircraft and be
AE 2703	Fundamental Aircraft: Aircraft Structure	3 credits
	oth theory of basic structure and strength of material, including	fatigues and component
AE 2704	Fundamental Aircraft: Aircraft Material	3 credits
	nowledge of aircraft material, types of material especially compo d fixing.	site material including the
AE 2705	Fundamental Aircraft: Aircraft Performance	3 credits
	ers and jet aircraft performance, equation of motion, level flight, o ed on FAA requirement.	gliding, climbing including
AE 2901	Fundamental Aircraft: Practical Verification	1 credit
	al knowledge in "Fundamental Aircraft". The practical assignme	nt related to the topic i
AE 3200 Prerequisite:	Intermediate Flying: Flight Simulator Training Device I AE 1200 Core Flying: Single-Engine Flight - Flight	1 credit
Training in cockpit resou Operating Procedures (SC	urces management, development of Threat and Error Managem DPs), application of knowledge to the flight training by showing c flying method and also basic automatic flight by using correct ttor.	competency in flying tech
	Intermediate Flying: Flight Simulator Training Device II	1 credit

skills, the Standard Operating Procedures (SOPs), application of knowledge to the flight training by showing competency in flying techniques, basic concept of flying method both in normal and non-normal flight procedures and also basic automatic flight by using correct basic of flying and flying techniques in flight simulator.

AE 3300 Prerequisite:	Intermediate Flying: Route Manual and Pilot Applications AE 2203 Basic Flying: Operational Procedures AE 3301 Intermediate Flying: General Navigation AE 3502 Intermediate Flying: Radio Navigation	3 credits
Application of the rules and	regulations stated in Route Manual for all phases of flight from pre-fligh include pre-flight planning, en-route charts, approach and landing charts, ins and information.	
AE 3301 Prerequisite:	Intermediate Flying: General Navigation AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
	vigation from basic pilot navigation to advanced plotting, use of flight co	omputers, maps
AE 3302 Prerequisite:	Intermediate Flying: Flight Performance and Planning I AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
Knowledge and principles to anced for safe and efficient of	enable the pilot and future captain to check that an aircraft is correctly operations which include theories required to operate an aircraft safely escent and landing, as well as typical aircraft types.	
AE 3303 Prerequisite:	Intermediate Flying: Flight Performance and Planning II AE 3302 Intermediate Flying: Flight Performance and Flight Planning I AE 3500 Intermediate Flying: Airframes and Aircraft Systems	3 credits
	uction based upon aircraft such as the Boeing and Airbus, as well as a factor.	aspects of flight
AE 3304	Intermediate Flying: Meteorology	3 credits
All aspects of meteorology a	nd its application to flight operations, meteorology and weather forecas , how weather-related, in-flight hazards arise and how they should be pre	
	Aircraft Maintenance: Maintenance Human Factor	1 credit
Factors that might cause dan	nage in maintenance, theory of human behavior and proactive model ir ining aircraft and maintenance safety.	cluding how to
AE 3311	Aircraft System: Technical Document System	3 credits
Common and manufacturing	aircraft manual, service letters, service bulletin and other issued docum em for working in maintenance.	ents, which are
AE 3312	Aircraft System: Logistics	2 credits
Logistics or maintenance and nance in order to avoid lack or management based on basic l		ducting mainte- systematic
AE 3400 Prerequisite:	Intermediate Flying: Advanced Aerodynamics AE 1100 Core Flying: Single-Engine Flight – Ground	3 credits
Basic aerodynamic theory to	transonic and supersonic flight to help professional pilots master the depends and which are essential to a full understanding of the flight coerate.	
AE 3401	Avionics	3 credits
	uding the indicators and instrument used on aircraft, usefulness of t	his system and
AE 3411	Aircraft System: Aviation Acts and Airworthiness Regulations	3 credits
	Regulation. Laws which relate to maintenance and flight operation bas	ed on FAA and

3 credits

Eight systems which comprise of the essential components of the modern aircraft, every part of the aircraft in details from the basic structure, hydraulic, fuel, air conditioning, anti-icing and flight-control systems to the emergency equipment and landing gear.

AE 3501	Intermediate Flying: Power Plants and Instrumentations	3 credits
Prerequisite:	AE 1100 Core Flying: Single-Engine Flight – Ground	

Engine design and engine operation considerations as well as recognition of engine malfunctions, flight instruments, warning and recording equipment and automatic flight control systems.

AE 3502	Intermediate Flying: Radio Navigation	3 credits
Prerequisite:	AE 1100 Core Flying: Single-Engine Flight – Ground	

Radio navigation facilities available for the navigation of aircraft during departure, en-route and approach, as well as the radar facilities used for the control of aircraft and for in-flight safety, and the latest Global Navigation Satellite Systems (GNSS).

AE 3511	Aircraft System: Aircraft Communications	1 credit

Introduction to basic fundamental theory of communication technology, communication equipment and systems using in aviation, signal flow chart and how to understand the communication system.

AE 3512	Aircraft System: Ground Support Equipment	2 credits
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Types of Ground Support Equipment (GSE) which are used to support during conducting maintenance, including how to handle and provide maintenance to GSE, units such as airline or maintenance company to be responsible for GSE.

AE 3513

Aircraft System: Non-Destructive Inspection

Basic theory, current methods of Non-Destructive Inspection (NDI) used for aircraft structures, level of NDI, technique and tools.

AE 3600	Advanced Flying: Multi-Engine Turbine – Ground	3 credits
Prerequisite:	AE 3201 Intermediate Flying: Flight Simulator Training Device II	
	AE 3300 Intermediate Flying: Route Manual and Pilot Applications	
	AE 3303 Intermediate Flying: Flight Performance and Flight Planning	
	AE 3501 Intermediate Flying: Power Plants and Instrumentations	

Multi-engine turbine powered aircraft systems, high speed aerodynamics, aircraft stability and control, basic knowledge for flight operation, basic airline business and ground operation, aircraft performance and limitations, weight and balance, avionics and automatic functions which include safety and emergency.

AE 3601	Advanced Flying: Multi-Engine Turbine Flight	4 credits
Prerequisite or Co-requisite:	AE 3600 Advanced Flying: Multi-Engine Turbine – Ground	

Training in cockpit resources management, development of Threat and Error Management (TEM) skills thorough understanding of the Standard Operating Procedures (SOPs), application of knowledge to the flight training by showing competency in flying techniques, basic concept of flying method both in normal and non-normal flight procedures and also basic automatic flight.

AE 3602	Advanced Flying: Specific Aircraft Flight-Ground	3 credits	
Prerequisite:	AE 3601 Advanced Flying: Multi-Engine Turbine Powered Flight	g: Multi-Engine Turbine Powered Flight	
	AE 4300 Intermediate Flying: Crew Resource Management and Flight Safety		

Aircraft system for A330-300 commercial aircraft which include the airframe and power plant, avionics, aircraft performance and limitations, weight and balance and safety and emergency.
AE 3603 Co-requisite:	Advanced Flying: Specific Aircraft Flight-Flight AE 3602 Advance Flying: Specific Aircraft Flight-Ground	3 credits
Eight training modules which normal, Maintenance Flight	h are Maintenance Flight Training Device (MFTD) normal, Full Flight Training Device (MFTD) abnormal and emergency, additional specific tor (FFS), Full Flight Simulator (FFS) conformity check or Skill Test and D-300 aircraft).	training, Base
AE 3700 Prerequisite:	Commercial Flight I AE 2201 Basic Flying: Single/ Multi-Engine- Flight II	1 credit
Training in the maneuvers and	d procedures necessary to meet the standards contained in the commerc in cockpit resources management and safe flying practices.	cial pilot practi-
AE 3701 Prerequisite:	Commercial Flight II AE 3700 Commercial Flight I	1 credit
Continued training in the ma pilot practical test standards, an AE 3702 Prerequisite:	neuvers and procedures necessary to meet the standards contained in nd training in cockpit resources management and safe flying practices. Commercial Flight III AE 3701 Commercial Flight II	the commercial 1 credit
Continued training in the ma	neuvers and procedures necessary to meet the standards contained in and training in cockpit resources management and safe flying practices.	the commercial
AE 3703 Prerequisite:	Commercial Flight IV AE 3702 Commercial Flight III	1 credit
Continued training in the ma	neuvers and procedures necessary to meet the standards contained in nd training in cockpit resources management and safe flying practices.	the commercial
AE 3710	Aircraft Maintenance: Aircraft Maintenance I	3 credits
	hich concerns the importance, the meaning, the program of maintenar tions related to maintenance.	ce and the or-
AE 3711	Aircraft Maintenance: Aircraft Maintenance II	3 credits
Relationship between the ope	eration of flight and maintenance in airline or maintenance repair statio nization, discussion of problems in maintenance management to underst d global region.	
AE 3712	Aircraft System: Hydraulic and Pneumatic System	3 credits
Basic fundamental theory of tems, Pascal's law in an opene hydraulic system, functional p	hydraulic and pneumatic power system and their applications in vario ed and closed chamber and its application, different components consist principle of each component in hydraulic system. Students will learn to o hart diagram and perform maintenance on the system involving hydraulic s	ing in a simple design a simple
AE 3713	Aircraft System: Landing Gear and Brake System	3 credits
Basic functional principle of la	anding gear and brake system, how to service and maintain landing ge wheels, brakes, indication systems and warning systems.	ar systems and
AE 3714	Aircraft System: Fuel System	3 credits
Basic fundamental theory and fuel and theory towards the repair, and installation mainte	d functional principle of fuel system, how to safely service aircraft wit maintenance of aircraft airframe fuel systems, advises on aircraft fuel sy enance procedures and policies, diagnoses fuel system and componen ve actions and resolutions of problems using technical publications and	stems removal, t malfunctions,
AE 3715	Aircraft System: Power plant	3 credits
	d functional principle of an aircraft power plant system, all the equipme	ent which work

Basic fundamental theory and functional principle of an aircraft power plant system, all the equipment which work together with the propulsion system, flow chart of power system which supports the aircraft power, functional principle of each part and how to perform maintenance on power plant system.

AE 3716

Aircraft System: Stability and Weight & Balance System

3 credits

Stability of aircraft based on basic physics and flight dynamics, basic of Weight and Balance (W&B), including tools, schedule and method, discussion of importance and problems.

AE 3800	Aircraft System: Aircraft Electrical System	3 credits
the second of the second	aircraft electrical system technology, equipment and sources rt and how to understand the communication.	of electrical supply using

AE 3900	Seminar in International and Domestic Navigation	3 credits
Prerequisite:	AE 2100 Basic Flying: Single/Multi-Engine-Ground	

Domestic and flight regulations and evaluation of their impacts on long-range domestic and international flights, use of ICAO operational requirements and typical air carrier Ops SPECS to plan domestic and transoceanic flights, highaltitude airspace, navigation, and approach procedure chart interpretation, concepts of MNPS and RVSM airspace, dispatch procedures, ETOPS, ETP, drift down, track messages, LRN accuracy checks, Oceanic Air Traffic Control clearances, international METARs and TAFs and emergencies and contingencies while on oceanic tracks, communication systems requirements and methodology which include satellite, digital, and analog devices.

AE 3901	Aircraft Maintenance: Practical Verification	1 credit
Practice of the theor is given.	etical knowledge in "Aircraft Maintenance Aircraft". The practical assi	ignment related to the topic

AE 4300	Intermediate Flying: Crew Resources Management	1 credit
	And Flight Safety	
Prerequisite:	AE 1100 Core Flying: Single-Engine Flight– Ground	

Human error and reliability, error chain, error prevention and detection, organizational factors, company safety culture, stress and stress management, fatigue and vigilance, information acquisition and processing, situational awareness, workload management, aeronautical decision making, communication and coordination inside and outside the cockpit, leadership and team behavior synergy, automation and philosophy of the usage of automation, basic flight safety concepts, theories of cause of accident, Human Factors Failure Analysis Classification System (H-FACS), and case study of both incident and accident.

AE 4301	Intermediate Flying: Human Performance and Limitations	3 credits
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Limitations of the human body operating in an aviation environment as well as dealing with all the aspects of the decision making process relevant to the pilot.

AE 4700	Commercial Pilot License Instructor	6 credits
Prerequisite:	Obtain commercial pilot license preferably with instrument	
	and multi-engine rating	

Fundamental instructions required to be the flight instructor for airplane which include learning process, human behavior, effective communication, teaching methods, critique and evaluation, and professional development.

AE 4701	Commercial Pilot License Instructor : Flight I	2 credits
Prerequisite:	Obtain Commercial Pilot License Single-Engine and instrument rating	
	AE 4700 Commercial Pilot License Instructor	

Training in the maneuvers and procedures necessary to meet the standards contained in the flight instructor practical test standards, Single-Engine Land with Instrument Airplane Rating, training in cockpit resources management and safe flying practices, associated ground instructions which include completion of the fundamentals of instruction, the flight instructor airplane, and the flight instructor instrument written test.

Commercial Pilot License Instructor: Flight II	2 credits
Obtain Commercial Pilot License multi-engine and instrument rating	
AE 4700 Commercial Pilot License Instructor	
	Obtain Commercial Pilot License multi-engine and instrument rating

Training in the maneuvers and procedures necessary to meet the standards required to add the Multi-Engine Flight Instructor Rating, additional instruction in advanced multi-engine flight crew training techniques including cockpit resources management and safe flying practices.

AE 4901	Aircraft System: Practical Verification	1 credit
	nowledge in "Aircraft System Aircraft". The practical assignment related	to the topic is
AE 4904	Special Problems in Aeronautic Engineering I	3 credits
	autic engineering. Students will be supervised to do research on cert	ain problems in
AE 4905 Pre-requisite:	Special Problems in Aeronautic Engineering II AE 4904 Special Problems in Aeronautic Engineering I	2 credits
	autic engineering. Students will be supervised to do research on cert	ain problems in
AE 4906 Pre-requisite:	Special Problems in Aeronautic Engineering III AE 4905 Special Problems in Aeronautic Engineering II	1 credit
	autic engineering. Students will be supervised to do research on cert	ain problems in
AE 4930	Advanced Topics in Aeronautic Engineering I	3 credits
Most current advancements	in a particular field of study as determined by the instructor of the cou e varied interests of the students or the research requirements.	rse. The topic of
AE 4931 Pre-requisite:	Advanced Topics in Aeronautic Engineering II AE 4930 Advanced Topics in Aeronautic Engineering I	2 credits
Most current advancements	in a particular field of study as determined by the instructor of the cou e varied interests of the students or the research requirements.	rse. The topic of
AE 4932 Pre-requisite:	Advanced Topics in Aeronautic Engineering III AE 4931 Advanced Topics in Aeronautic Engineering II	1 credit
Most current advancements	in a particular field of study as determined by the instructor of the cou e varied interests of the students or the research requirements.	rse. The topic of
Al 3201 Prerequisites:	Biological Material and Biodegradation BS 1005 Principles of Biology and BS 1006 Biology Laboratory	3 Credits
Properties and mechanisms assessing the extent and ca	of biodeterioration in natural materials important in Agro-industry, tec uses of deterioration, damage reduction strategy and technique, includi corresponding laboratory sessions.	
Al 3202 Prerequisites:	Introduction to Agro-Industry BS 1001 General Chemistry and BS 1005 Principles of Biology	2 Credits
Meaning and importance of	agro-industry to the economy of the country, factors and composition acts and the value adding processes.	of agro-industry,
Al 3203 Prerequisites:	Instrumentation and Control in Agro-Industrial Process BS 1001 General Chemistry, BS 1201 Physics for Bioscience and BS 1202 Physics Laboratory for Bioscience	3 Credits
Principles and application of in production efficiency and	f instruments involved in biotechnology and their variation in control sy I stability and their application in research, the application of mathema and the control system in Agro-Industry, and corresponding laboratory sessi	tics and physics

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Processing of Agricultural Products I AI 3202 Introduction to Agro-Industry

Chemical, physical and biological properties and characteristics of agricultural raw materials, factors and processing principles for converting agricultural raw materials into industrial products. This course is also combined with laboratory sessions.

AI 3205	Bioychemical Engineering	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry and	
	BS 2011 Introduction to Microbiology	

Applications of biological organisms and their enzymes in the bioprocesses and the enzyme technology, bioprocess economics, applied enzyme kinetics, fermentation kinetics, metabolic stoichiometry, transport phenomena, sterilization techniques, bioreactor design a nd operation, upstream and downstream processes and optimization in the process scale up.

AI 3206	Agro-Industry Management and Marketing	3 Credits
Prerequisite:	BG 2403 Introduction to Economics	

Basic principles of marketing and management which can be applied to use with agricultural products. The topics include environmental factors in Agro- industry, consumer's buying behavior, marketing research, product development, pricing strategy, distribution channel, and promotion strategy in with the examples and the case studies of agro-industrial products.

AI 3207	Unit Operation of Agro-Industry I	3 Credits
Prerequisite:	BT 3013 Introduction to Bioprocess Engineering	

Concepts and principles of engineering for various unit operations in agro-industry, topics include pumps, heat exchangers, evaporators, dryers, refrigerators, boilers, retorts, and size reduction equipment, and corresponding laboratory sessions.

AI 3208	Standards and Regulations of Agricultural Products	2 Credits
Prerequisite:	AI 3202 Introduction to Agro-Industry	
or	FT 3101 Introduction to Food Technology	

Legal and scientific issues involved in the national and international regulations of agricultural products and foods, philosophy underpinning the application of regulation statutes, roles and responsibilities of Thai FDA and international organizations e.g. WTO and its agreements etc., Food Act B.E. 2522, food standards, Codex, risk analysis, and nutrition labeling and sources of information necessary for communication with government and public are also included.

AI 4208	Processing of Agricultural Products II	3 Credits
Prerequisite:	AI 3204 Processing of Agricultural Products I	

Processing methods of agricultural products into food products and non-food products including fruit and vegetable, cereal, meat, milk, rubber, wood and textile and packaging of the products, and corresponding laboratory sessions.

AI 4209	Unit Operation for Agro-Industry II	3 Credits
Prerequisite:	AI 3207 Unit Operation for Agro-Industry I	

Concepts and principles of engineering for various unit operations in separation processes which Topics include distillation columns, extractors, adsorption columns, absorption towers, membrane separators, crystallizers, filters, and centrifuges, and corresponding laboratory sessions.

AI 4211	Fermentation Process	3 Credits
Prerequisite:	Al 3205 Biochemical Engineering	

Principles of isolation, modification and storage techniques of industrial microorganisms, nutrients needed for microbial growth and media optimization, optimization and control processes during upstream, fermentation and downstream processes in batch, continuous and fed batch bioreactors, and corresponding laboratory sessions.

AI 4212 Prerequisites:	Tissue Culture Techniques and Application BS 1005 Principles of Biology BS 1006 Piology Laboratory	3 Credits
and		
	iological basis of plant tissue culture used in research and indu ogenesis, somatic embryogenesis and micropropagation, and co	
AI 4213 Prerequisite:	Agro-Industrial Quality Control BG 1201 Statistics I	3 Credits
Agro-industrial produ control of quality, qu	ction as a systematic and controllable process, acceptance sam lality management, quality control, quality assurance and quality ality Management and ISO series within food factory, and correspondi	improvement, quality assu
AI 4215 Prerequisite:	Agro-Industry Preservation and Packaging AI 4208 Processing of Agricultural Product II	3 Credits
of packaging that inc applications, and corre	relating to raw material and product spoilage, storage and pres clude packaging materials used in transportation and distribution esponding laboratory sessions.	, their properties, forms an
Al 4216 Prerequisite:	Fiber Technology AI 4208 Processing of Agricultural Products II	3 Credits
	on of natural fiber, sources of raw material, processing methods u ent of natural fiber and application as agro-industrial, and correspondi	
search and developme	and of natural liber and application as agro-industrial, and correspondi	ng laboratory sessions.
AI 4217	Essential Oil Technology	ng laboratory sessions. 3 Credits
AI 4217 Prerequisite:	Essential Oil Technology BS 2006 Basic Biochemistry	3 Credits
Al 4217 Prerequisite: Composition, physical	Essential Oil Technology BS 2006 Basic Biochemistry	3 Credits
Al 4217 Prerequisite: Composition, physical and use of essential oil Al 4218 Prerequisite:	Essential Oil Technology BS 2006 Basic Biochemistry and chemical characteristics of essential oils, sources of raw ma s, and corresponding laboratory sessions. Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II	3 Credits
AI 4217 Prerequisite: Composition, physical and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product process development,	Essential Oil Technology BS 2006 Basic Biochemistry and chemical characteristics of essential oils, sources of raw ma s, and corresponding laboratory sessions. Agro-Industrial Product Development	3 Credits terial, extraction, purificatio 3 Credits ustry, generation and screen prototype development an
AI 4217 Prerequisite: Composition, physical and use of essential oil AI 4218 Prerequisite: New products and pro- ing of new product process development, products and evaluation AI 4219	Essential Oil Technology BS 2006 Basic Biochemistry and chemical characteristics of essential oils, sources of raw ma s, and corresponding laboratory sessions. Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and ind ideas, design of product concept, product design specifications, sensory testing and testing of consumer acceptability, shelf life of on of launch and hand-on experience in laboratory. Sugar Technology	3 Credits terial, extraction, purificatio 3 Credits ustry, generation and screer prototype development an
AI 4217 Prerequisite: Composition, physical and use of essential oil AI 4218 Prerequisite: New products and pro ing of new product process development,	Essential Oil Technology BS 2006 Basic Biochemistry and chemical characteristics of essential oils, sources of raw ma s, and corresponding laboratory sessions. Agro-Industrial Product Development Al 4208 Processing of Agricultural Product II oduct development system for Agro-industry in laboratory and ind ideas, design of product concept, product design specifications, s sensory testing and testing of consumer acceptability, shelf life of on of launch and hand-on experience in laboratory.	3 Credits terial, extraction, purification 3 Credits ustry, generation and screen prototype development an evaluation, launching of ne

AI 4220	Post Harvest Technology	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry and	
	AI 4208 Processing of Agricultural Product II	
or	FT 4108 Industrial Food Processing II	

Principles underlying physiological changes in fresh agricultural produces, harvesting methods and post harvest technology to handle the post harvested crops in order to maintain the crop qualities or to delay the changes involved in deterioration of the crop qualities and, corresponding laboratory sessions.

3 Credits

Current technologies used in production of alcoholic beverage, and monitoring of impact of fermentation variables on microbial performance and product quality, distillation principles and practices, production technology of brandy, whiskey, rum, vodka, gins, and other distilled beverages, characteristics of raw materials, fermentation, distillation, and aging, manufacturing processes used in alcoholic beverages production, research development involving the use of biotechnology for the purpose of yield, solving quality related problems and stimulation innovation, an introduction to management, marketing and economics of most of the alcoholic beverages, review market segmentation and explore alternative, social policy formation, and corresponding laboratory sessions.

AI 4222	Water and Waste Management	3 Credits
Prerequisite:	BS 2011 Introduction to Microbiology	

Water and waste management starting from good preparation of raw material for industry, clean technology, waste controlling, and water management of downstream process to reduce sources of pollution, and corresponding laboratory sessions.

AI 4223	Waste and By-product Utilization	3 Credits
Prerequisite:	BS 2011 Introduction to Microbiology	

Principles and practical issues for using of waste and by-products from industry to find optimum method to produce products from those waste materials, and corresponding laboratory sessions.

AI 4226	Plant Breeding Technology	
Prerequisites:	BS 2012 Genetics and	
	AI 3202 Introduction to Agro-Industry	

Life cycle of monocotyledons and dicotyledons, sexual and asexual reproduction of plant, factors affecting plant growth, plant cultivation techniques and seed storage technology, mechanisms of germination, seed selection, techniques for sexual and asexual propagation. The course also includes the study of plant genetic, inheritance, germplasm bank, the use of genetic engineering to create new plant species and also industrial seed production techniques, and corresponding laboratory sessions.

AI 4232	Secondary Metabolites of Plant Cells	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry	
and	BS 2007 Basic Biochemistry Laboratory	

Use of plant cells for production of secondary metabolism products such as alkaloid, monoterpenes, biopolymer, antimicrobial agents and flavors products. The course will also discuss on metabolic regulation of the desired products, genetic manipulation of plant cells with different techniques e.g. recombinant DNA and protoplast fusion techniques, and corresponding laboratory sessions.

AI 4233	Pulp and Paper Technology	3 Credits
Prerequisite:	AI 4208 Processing of Agricultural Products II	

Basic knowledge in pulp and paper science and technology, pulping process, pulp bleaching, paper processing, coating of paper, use of non-fibrous additives, measurement of pulp and paper quality, paper recycling process, water treatment in the pulp and paper mill, and new technology in pulp and paper processing.

AI 4234	Wood Technology	3 Credits
Prerequisite:	AI 4208 Processing of Agricultural Products II	

Types of wood, natural properties of wood, mechanical properties and degradation, basic principles of wood preservation, processing of wood and commercial uses for wood products as well as safety and quality control in wood manufacturer.

AI 4235	Rubber Technology	3 Credits
Prerequisite:	AI 4208 Processing of Agricultural Products II	

Chemical and physical properties of rubber, definition and basic concepts of Caoutechouc, rubber and elastomer, vulcanization, natural rubber latex and coagulation technology, manufacturing of industrial rubber latex sheets, block rubber and rubberized products and recent developments in the biotechnology associated with rubber technology.

3 Credits

Production of feeds, nutritional requirement of economically important animals, the composition and nutrition characteristics of common feeds, feed formulation, economics of feeding programs for farm animals, plant layout design, selection of appropriate equipment, quality control, feed manufacturing management, safety and sanitation for feed manufacturing industry and also the application of biotechnology to improve quality of feeds.

AI 4237 Prerequisite:	Leather Product Technology Al 4208 Processing of Agricultural Products II	3 Credits

Leather and hide used for industrial purposes and their properties as well as processing technology of leather and hide, equipment and tools used in leather industry, waste and environmental management for leather manufacturer.

AI 4238	Mushroom Cultivation Technology	3 Credits
Prerequisite:	BT 3015 Industrial Fermentation	

Biology and cultivation of different types of mushroom that is economically important especially for human consumption, preparation of starter culture, support materials and media preparation and sterilization, environmental control for fruiting body formation, preparation of cultivation room or space, cultivation methods and also post harvest technology for mushroom, including mushroom diseases and prevention methods.

AI 4239 Selected Topic 3 Cred	its
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Discussion and advanced study of a selected topic in the field of Agro-Industry, and corresponding laboratory sessions.

AI 4290	Special Project	3 Credits

A project involving an aspect of Agro-Industry, design of the study, collection and analysis of experimental data under the faculty member's supervision. A written report and presentation of the research work in a seminar is compulsory.

Al 4291 Field Trip 1 Credit Visit to food or Agro-Industrial production facilities to view specific aspects of food processing and management, written report of the tour is required.

AI 4292	Seminar	1 Credit

Method in preparation and performing a scientific presentation, demonstration of scientific research paper presentation from veteran speakers in the field of biotechnology, food technology and agro-industry. Each student is required to present a selected paper of interest from scientific journals.

AI 4294	Internship	Non-credit

Practical training in Agro-Industry or biotechnology related industry, government sector and/or academic institute of no less than 300 hours to develop skills and confidence after graduation.

AR 1102 Visual Studies and Communication 3 Credits

Composition of abstract visual art using elements, such as shape, form, space, figure and ground, color, and texture. Design experimentation through various methods of communication, such as drawing painting, collage, folding, carving and model making. Emphasis given to the aesthetics of composition, idea manifestation, and communication skills.

AR 1104 Fundamentals of Architectural Design 3 Credits

Theory and architectural components and the basic design relationship between form, function in order to fulfill the perfection of architectural design.

AR 1106	Architectural Drawing	3 Credits	
Methods of drawing used in architecture and design profession i.e. orthographic projection, perspective projection, shade and shadow and drawing technique in pencil, and ink.			
AR 1107	Introduction to Creative Culture	3 Credits	
Introduction to contempo lectual awareness of hur	orary trends in design and art in the context of creative culture, visu nankind's creativity, investigation of the developing, role, and influe noting students' understanding and appreciation of art and design.		
AR 2106	History of Architecture I	3 Credits	
Architectural history from civilizations. Comparative its concept, philosophy, a architecture, i.e., geograp	In the Prehistoric era to the Enlightenment periods, spanning both e reviews incorporating research and analysis of the tendencies and and also construction methods as well as contextual influences posi- obical, sociocultural, political, and technological factors by presen- logical process and, expectantly, furthering the understanding of v opment of architecture.	forms of architecture, ing on the consequent ting a larger historical	
AR 2109	Building Technology and Construction I	3 Credits	
Introduction to small bui	lding construction, standard timber construction methods, short spa sic construction materials such as timber, concrete, masonry and studio		
AR 2110 Prereguisite:	Building Technology and Construction II AR 2109 Building Technology and Construction I	3 Credits	
Medium building construction using reinforced concrete construction methods, light frame steel for the roof and principles of structural system, properties of building materials such as steel, glass and other standard building products and studio work.			
AR 2202 Prerequisite:	Architectural Design I AR 1104 Fundamental of Architectural Design	6 Credits	
Introduction to architectu	ural design of intimate-scale by considering basic related factors su program, and habitation, poetic meaning, human needs and the inte onment.	and the second se	
AR 2204	Architectural Design II	6 Credits	
Prerequisite: AR 2202 Architectural Design I Continuation of practice from Architectural Design I, broader architectural dimensions, multi-user private and small- scale public design problems, how architecture fits contextually into existing circumstances, and how poetic mean- ings relate to built forms, analysis of existing places and synthesis incorporating the more complex multi-dimensions of architectural environments.			
AR 2303	Structural Analysis	3 Credits	
Analysis of structural me	mbers under apply loads of the building: consist of joist, beam, floo concrete structure and also properties of materials	or, floor beam, column,	
AR 2304 Prerequisite:	Structural Design AR 2303 Structural Analysis	3 Credits	
Principles and concept of structural design in architecture, properties of materials, design criteria of materials selec- tion and type of structure for structural form and member, survey of current and future structural technology.			
AR 2305 Prerequisite:	History of Architecture II AR 2106 History of Architecture I	3 Credits	
Architectural history from the Industrial Revolution to the 1960's Late Modernism, comparative reviews incorporating research and analysis of the tendencies and forms of architecture, its concept, philosophy, and also construction methods, contextual influences posing on the consequent architecture, i.e., geographical, sociocultural, political, and technological factors.			

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system, and basic passive design application of shading device.

3 Credits

Basic understanding of using computer as Architectural communication tool, AUTOCAD program for creating Architectural drawing and representation, introduction to basic three dimensional modeling/rendering and animation.

AR 3106	Building Environmental Control I	3 Credits
Basic knowledge in building	system and environmental control, water supply system,	drainage system, water treat-
	al, electrical system, fire protection system, communication	

AR 3107 Building Environmental Control II 3 Credits Prerequisite: AR 3106 Building Environmental Control I

Advanced knowledge and practice of the building technology in relation to the building systems, natural resources and energy consumption and management, sustainable design concept and application.

AR 3200	Theory and Concept in Architecture	3 Credits
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Contemporary architectural theories and concepts, from the late Modern period to the present time, through the study of significant texts and buildings of the sentimental architects and theorists, investigating the formal, technological, social, political, and economical debates at issue within the discipline, with emphasis given to evaluate and articulate the interactions between theory and practice, thereby enabling students to formulate and assess strategies for the making of architecture.

AR 3203	Architectural Design III	6 Credits
Prerequisite:	AR 2204 Architectural Design II	

Continuation of practice from Architectural Design II with moderate complex level, developing the design process skills through conceptualization, analysis, synthesis, visualization of architectural design at all levels of correlation of context, conceptualization in value, identity and aesthetic quality in architectural design and exploration of a medium scale public building.

AR 3207	Architectural Design IV	6 Credits
Prerequisite:	AR 3203 Architectural Design III	

Continuation of practice from Architectural Design III with more complexity, experiment and application of a wide span structure, development of space and building form through the expression of structure, building envelope, materials, site planning, and space arrangement of building for tropical climate concerning aesthetics and utility system of building, and exploration of a medium scale public building.

AR 3307	Building Technology and Construction III	3 Credits
Prerequisite:	AR 2110 Building Technology and Construction II	

Composite building materials and construction methods, large span pre-stressed and post-tensioned systems for floor and beam, fundamental principles of prefabricated – construction system and curtain wall and studio work.

AR 3308	Building Technology and Construction IV	3 Credits
Prerequisite:	AR 3307 Building Technology and Construction III	

Introduction to design and construction principles of long span structure, high-rise building and their behavior and studio work.

AR 3309	Architectural Design Methods	3 Credits

Parallel investigation in conjunction with the design studio in order to substantiate architectural knowledge through the discussion of actual architectural case studies, correlation between conceptual foundation, learned in the studio context, physical, and formal building and implementation in design practice, multi-dimensional organization of an architectural project, such as planning, formation, and execution. The transitional knowledge shall project a comprehensible realism, upon which students shall base their creativity for further application and learning.

AR 3310	Fundamentals of Site and Landscape Planning	3 Credits

Shaping of the surroundings through a thorough analysis of issues starting from land, soil, and vegetation to social and economic factors to best determine a possible site layout.

AR 4101

History of Thai Architecture

3 Credits

Components of Thai Architecture from Sukhothai to Rattanakosin periods, various influence and development of Thai Architecture, influences of culture from outside and analysis of unique Thai Architecture in different periods of time.

time.				
AR 4106	Methods of Research and Data Processing	3 Credits		
Principles and regulations of appropriate architectural research in conjunction with quality and quantity to support research, history and conservation, research in technology, marketing, social work and behavior involving architecture and case study analysis.				
AR 4203 Prerequisite:	Architectural Design V AR 3207 Architectural Design IV	6 Credits		
Continuation of practice fractice fraction integrated through correspondences	om Architectural design IV, complexities of building programs and sp bondence of design process and building systems, relationships of as determinants in cluster buildings planning, and exploration of a med	contextual, spatial		
AR 4205 Prerequisite:	Architectural Design VI AR 4203 Architectural Design V	6 Credits		
Continuation of practice fro and communities, investiga	om Architectural design V, importance of built environments responsive ation and analysis the programmatic organization, multi-level of corre with current urban situation, forming the conceptual background of o planning issues.	lation of buildings		
AR 4301	Fundamentals of Urban and Regional Planning	3 Credits		
Influence of developing ci tween city and its surround	Influence of developing city in physical, economics, structures, social work and its environment, relationship be- tween city and its surroundings, process of city and regional design, conceptual design of urban, transportation, and environmental conservation.			
AR 4302	Seminar in Architecture	3 Credits		
		5 Creatis		
Architectural seminar involv	ving architectural development from the past to present in terms of the nal development, problems and obstacles in working and their solutions.			
Architectural seminar involv tice and the task of profession AR 4303	ving architectural development from the past to present in terms of the onal development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours)			
Architectural seminar involution and the task of profession AR 4303 A 240 working hour profession	ving architectural development from the past to present in terms of the past log present in terms of the past development, problems and obstacles in working and their solutions.	eoretical and prac- Non-credit		
Architectural seminar involution and the task of profession AR 4303 A 240 working hour profession	ving architectural development from the past to present in terms of the onal development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII	eoretical and prac- Non-credit		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession experiences and knowledge AR 5200 Prerequisite:	ving architectural development from the past to present in terms of the mail development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of	eoretical and prac- Non-credit kinds of hands-on 3 Credits		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession experiences and knowledge AR 5200 Prerequisite: Preparation of thesis inform	ving architectural development from the past to present in terms of the mail development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of	eoretical and prac- Non-credit kinds of hands-on 3 Credits		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession A 240 working hour profession experiences and knowledge AR 5200 Prerequisite: Preparation of thesis inform supervised by assigned advit AR 5203 Prerequisite: Continuation of practice fr	ving architectural development from the past to present in terms of the onal development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of sor. Architectural Design VII	eoretical and prac- Non-credit kinds of hands-on 3 Credits will be individually 6 Credits		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession A 240 working hour profession experiences and knowledge AR 5200 Prerequisite: Preparation of thesis inform supervised by assigned advit AR 5203 Prerequisite: Continuation of practice fr	ving architectural development from the past to present in terms of the mail development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of sor. Architectural Design VII AR 4205 Architectural Design VI om Architectural Design VI, developing design process focusing on m	eoretical and prac- Non-credit kinds of hands-on 3 Credits will be individually 6 Credits		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession A 240 working hour profession experiences and knowledge AR 5200 Prerequisite: Preparation of thesis inform supervised by assigned advit AR 5203 Prerequisite: Continuation of practice for searches pertaining to indivit AR 5205 Prerequisite:	Aring architectural development from the past to present in terms of the part development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) Sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of sor. Architectural Design VII AR 4205 Architectural Design VI om Architectural Design VI, developing design process focusing on m dual interests, analysis and studying of issues of interest. Thesis in Architecture AR 5200 Pre-Thesis in Architecture AR 5200 Pre-Thesis in Architecture AI design project of an approved thesis project which investigates either	eoretical and prac- Non-credit kinds of hands-on 3 Credits will be individually 6 Credits nultidisciplinary re- 9 Credits		
Architectural seminar involutice and the task of profession AR 4303 A 240 working hour profession A 240 working hour profession experiences and knowledge AR 5200 Prerequisite: Preparation of thesis inform supervised by assigned advit AR 5203 Prerequisite: Continuation of practice for searches pertaining to indivit AR 5205 Prerequisite: Students work on individual	Aring architectural development from the past to present in terms of the part development, problems and obstacles in working and their solutions. Practicum in Architecture (240 Hours) Sional training at an architecture firm in order to expose students to all in the real architectural business world. Pre-Thesis in Architecture AR 5203 Architectural Design VII mation, context, theory and facilities of thesis research. The direction of sor. Architectural Design VII AR 4205 Architectural Design VI om Architectural Design VI, developing design process focusing on m dual interests, analysis and studying of issues of interest. Thesis in Architecture AR 5200 Pre-Thesis in Architecture AR 5200 Pre-Thesis in Architecture AI design project of an approved thesis project which investigates either	eoretical and prac- Non-credit kinds of hands-on 3 Credits will be individually 6 Credits nultidisciplinary re- 9 Credits		

Ethical conduct of the professionals in the field, relationship between client and designer, designer and staff, an understanding of zoning, building laws, bidding and contracts, and work supervision.

AR 5401	Building Cost Estimation and Control	3 Credits
Principles of building es	stimate and control by way of rough and exact estimation, the or survey: materials, labor cost and equipment for final decision.	cost of materials, equipment
AR 5402	Fundamentals of Architectural and Urban Conservation	3 Credits
Principles of architectur	ral and urban conservation for evaluation and development, phys rnment policy to reinforce fundamentals of architectural and urban c	
AR 5403	Advanced Computer - Aided Design	3 Credits
Advanced study of com nology context, narrativ	puter-aided design and primary introduction to the creation of w ve, computation, and interactivity. Students will develop their inv ration, experimentation, and methodologies.	
AR 5404	Construction Management	3 Credits
	in relation to the engineer, contractor, architect, and security of construction.	control for safety purposes,
AR 5405	Individual Study in Architecture	3 Credits
	esting architectural topics of interest of the students, under the supe	ervision of the lecturers.
AR 5407	Real Estate Development	3 Credits
	t, procedure of financial investment and property management in cit	ty and rural areas.
AR 5409	Architectural Psychology	3 Credits
	hology development, fundamentals of psychology, human beha	vior, mankind and environ-
AR 5410	Thai Architecture	3 Credits
Different components of	of Thai architecture as in building bodies, roofs and structures, an s from past to present time, conducting research on Thai design, priate functions.	
AR 5413	Project Management	3 Credits
	nstruction of projects, site, economical techniques, professional r	management, budget analy-
AR 5414	Energy Saving	3 Credits
	saving resources, alternative and renewable energy such as solower and biomass.	ar energy, wind power, wa-
AR 5415	Interactive Features Design	3 Credits
	tion of work within a design and technological context, i.e., new n gent space, developing individual investigations and interests b n.	

Theoretical basis for a design understanding for overall performance of façades, examination of the complex interrelationships through a consideration of existing constructions, design criteria in successful design of façades, knowledge of materials, methods of manufacturing and installation.

AR 5417	AF	R	54	1	7
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Interior Design by Architects

Introduction to interior spatial design and decoration necessary for professional architects incorporating lectures and studio, issues surrounding the interior profession and the architects, survey of contemporary works, principles of shaping and planning interior spatiality, design factors, programs, elements, colors, lighting, tectonic, presentation skills, and decorative materials for both new and renovation projects.

skins, and decorative in	atenais for both new and renovation projects.	
AR 5418	Introduction to Exhibition Design	3 Credits
Introduction to exhibit ing from programs sp system for products, a	tion design, strategies in designing for exhibitions and trade show booths, bace design, conceptual development of a thematic approach, and creative artifacts, or artwork activities as business practices specific to the trade s offective use of computer renderings and presentation skills.	on of a presentation
AR 5419	Special Topics in History, Theory and Technology in Architecture	3 Credits
	terest in history, theory and technology of architecture and urbanism.	
AR 5420	Light, Perception and Culture	3 Credits
Influences of lighting human beings react t aesthetic response to l	design to the human perceptual system and the culture of the times, un to and interact within light by exploring contemporary theories of perc light, introduction to psychology of lighting design, and the impact of ener	eptual, somatic, and
decisions. ART 0011	Intensive Drawing	Non-Credits
Introduction to drawing	ng tools and equipment, model observation, scale and proportion, shad dio class with individual study.	ing, and shadowing
ART 1001 Prerequisite:	Drawing ART 0011 Intensive Drawing	3 Credits
Principles of drawing, shading, and shadowir	types of drawing tools and equipment, includes paper types, various med ng, scale and proportion, composition preparatory process in the creation in work, including a required field trip.	
ART 1002	2 Dimensional Foundation	3 Credits
Theory of design from	n nature and the relationship between man and his environment, signific uding practical design projects in 2 and 3 dimensions.	ance of elements ir
ART 1003	Color Theory	3 Credits
Introduction of color t psychology of visual p	heory, tools and equipment, visual arts application, key terms and basics berception, theories of color relationships, color sphere, color and value, p olors identification. Portfolio of both assigned and individual painted projects	rimary color, second
ART 1004	Technical Drawing	3 Credits
Introduction to mecha	anical drawing: equipment, lettering, sketching, orthographic projection, a one using the drafting board.	nd basic dimension
ART 1005 Prerequisite:	Painting ART 1001 Drawing	3 Credits
Introduction to paintin tics, techniques on me	ng and its principles, theory of colors, tools and equipment, types of color edium implementation, individual expression under practical and a theor ue on assignments, including required field trip.	
ART 1006 Prerequisite:	3 Dimensional Foundation ART 1002 2 Dimensional Foundation	3 Credits
	Flight and shadow and their effects toward visual perception, and transfo	rmation of 2D to 3

ART 1007 Prerequisite:	Figure Drawing ART 1001 Drawing	3 Credits
Introduction to human	anatomy, structures, types of figure drawing including gesture drawin hadowing, including life drawing in studio with real observation on nuc	
ART 1208	Computer Graphic Foundation	3 Credits
Introduction to comput	er for design, software and hardware, vector and raster-based graph oles of graphics design process, techniques and printing options.	ics and its nature, digital
ART 2009	History of Art	3 Credits
A chronological survey	of Western and Eastern arts, classifications and periods of historica action from ancient to contemporary art.	al significances and their
ART 2010	Typography	3 Credits
Foundation of typograp	oby as a tool for designers to make communication. Through obser Roman typography in order to acquire basic working skills for profession	
ART 2112	Illustration	3 Credits
	and imagination in order to use in all print media, e.g. magazine outdoor study.	s, documentaries, novels,
ART 2311	Photography	2 Credits
	pes of lenses, photography technique, lighting condition and expos class assignments.	ure. History of photogra-
ART 2313	Digital Imaging	3 Credits
Image retouching techn	ique by using Adobe Photoshop and other major image editing soft ng workflow, studio shooting, location, and laboratory exercises.	ware, color management
ART 3014	Thai Art	3 Credits
Nature of Thai art, tradi	tions, folklore and influencing models for students to apply in the c tudy from museums and historical parks which include outdoor study.	reation of visual commu-
ART 3016	History of Modern Design	3 Credits
Survey of art and desig ion design with the em	n since 1900s on historical contribution in the area of product design phasis on graphic design, ideas of the past designers in the contex r impacts toward contemporary design practice.	
ART 3017 Prerequisite:	Internship (160 hours) CGI 3212 Computer Graphics Design Studio V (for Computer Ger VIS 3110 Visual Communication Design V (for Visual Communica	
Professional practice by	 working in a company which provides design business such as gr and/ or advertising design. This course requires 160 hours working impany supervisor. 	
ART 3215 Prerequisite:	Interactive and Time Based Media ART 1208 Computer Graphic Foundation	3 Credits
Various types of graphi course will continue fro	cs design media such as motion graphics design, web design and o m the Computer Graphics Foundation and explore more in term of ra ohics and other elements of design.	

ART 4018		
	Art Appreciation	3 Credits
Characteristics and impor	tance of visual arts, literature, music, drama, film, taste, apprec in human experiences with the artistic sense in visual commun	
ART 4019	Aesthetics	3 Credits
Critical judgment based o	n sounded analytical skills from different perspectives in issues , scientific methods and quantitative measurement as keys to	
ART 4020	Laws and Ethics for Arts and Design	3 Credits
Law and ethics for art and	d design, libel law, printing law, management act and regulation television, film and other laws defining the right duties, respor	51 55.
BG 0008 Prerequisite or Co requisite		1 Credit
	cording to BG 1108 General Chemistry	
BG 1001	English I	3 Credits
Lower intermediate acade	emic English, with activities to foster reading, writing, listening re activities in a meaningful academic context.	g and speaking skills in Eng-
BG 1002 Prerequisite:	English II BG 1001 English l	3 Credits
N. C.		
Intermediate academic Er	nglish, reinforcing fluency and grammar with task-driven oral rence writing skills with combined reading comprehension exercis	
Intermediate academic Er oping vocabulary and sent BG 1108	nglish, reinforcing fluency and grammar with task-driven oral ence writing skills with combined reading comprehension exercis General Chemistry	
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis o	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period	ses and writing practice. 3 Credits n; chemical equilibrium; ionic
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis o equillibrium; chemical kin elements; nonmetal and tr BG 1200	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals. Mathematics for Business	ses and writing practice. 3 Credits n; chemical equilibrium; ionic
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis o equillibrium; chemical kin elements; nonmetal and tr BG 1200 Relation and various fund	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals.	ses and writing practice. 3 Credits n; chemical equilibrium; ionic lic properties; representative 3 Credits ad their applications in busi-
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis o equillibrium; chemical kin elements; nonmetal and tr BG 1200 Relation and various fund ness and economics, line	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals. Mathematics for Business ctions: linear, polynomial, exponential, logarithmic, rational an	ses and writing practice. 3 Credits n; chemical equilibrium; ionic lic properties; representative 3 Credits ad their applications in busi-
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis of equillibrium; chemical kin elements; nonmetal and tr BG 1200 Relation and various fund ness and economics, line optimization. BG 1201 Descriptive statistics, prob	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals. Mathematics for Business ctions: linear, polynomial, exponential, logarithmic, rational an ear programming, mathematics of finance and differential calc Statistics I pability theory and inferential statistics, summarizing of data ir tics, rules of probability, probability distributions, confidence int	ses and writing practice. 3 Credits n; chemical equilibrium; ionic lic properties; representative 3 Credits ad their applications in busi- culus: limits, derivatives, and 3 Credits n tables and graphs, compu-
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis of equillibrium; chemical kin elements; nonmetal and tr BG 1200 Relation and various fund ness and economics, line optimization. BG 1201 Descriptive statistics, prob tation of descriptive statis parameters, and hypothesi BG 1204	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals. Mathematics for Business ctions: linear, polynomial, exponential, logarithmic, rational an ear programming, mathematics of finance and differential calc Statistics I Dability theory and inferential statistics, summarizing of data in tics, rules of probability, probability distributions, confidence int is testing. Calculus I	ses and writing practice. 3 Credits n; chemical equilibrium; ionic lic properties; representative 3 Credits ad their applications in busi- culus: limits, derivatives, and 3 Credits n tables and graphs, compu-
Intermediate academic Er oping vocabulary and sent BG 1108 Stoichiometry and basis of equillibrium; chemical kin elements; nonmetal and tr BG 1200 Relation and various func- ness and economics, line optimization. BG 1201 Descriptive statistics, prob tation of descriptive statis parameters, and hypothesi BG 1204 Function, limits, continuit	nglish, reinforcing fluency and grammar with task-driven oral sence writing skills with combined reading comprehension exercis General Chemistry of the atomic theory; properties of gas, liquid, solid and solution netic; electronic structures of atoms; chemical bonds; period ansition metals. Mathematics for Business ctions: linear, polynomial, exponential, logarithmic, rational an ear programming, mathematics of finance and differential calc Statistics I bability theory and inferential statistics, summarizing of data in tics, rules of probability, probability distributions, confidence informations is testing.	ses and writing practice. 3 Credits n; chemical equilibrium; ionic lic properties; representative 3 Credits ad their applications in busi- culus: limits, derivatives, and 3 Credits n tables and graphs, compu- terval estimate of population 3 credits butation, formula for interval

Space vectors, matrices and determinants, linear analytic geometry, differential calculus of multivariable functions, vector analysis, linear integrals, surface integral and volume integrals.

BG 1211	Physics I	3 credits	
Mechanics of particles and rig	id Body, properties of matters, fluid mechanics, heat, vibrations, waves.		
BG 1212 Prerequisite or Co-requisite:	Physics Laboratory I BG 1211 Physics I	1 credit	
Experiments to be done accor	ding to BG 1211 Physics I.		
BG 1213 Prerequisite:	Physics I BG 1211 Physics I	3 credits	
	cs, alternating current circuits, basic electronics, optics modern physics.		
BG 1214 Prerequisite or Co-requisite:	Physics Laboratory II BG 1213 Physics II	1 credit	
Experiments to be done accor			
BG 1221	Computer Programming	3 credits	
Computer concepts, computer	er components, hardware and software interaction, EDP concepts, prog igh-level language programming.	ram design and	
BG 1230	Calculus	3 Credits	
Functions, limits, continuity,	technique and applications of differentiation, graphing functions, anti-de I equations, application of integrals, improper integrals and partial diff		
BG 1301	Fundamentals of Statistics	3 Credits	
Descriptive statistics, probability theory and inferential statistics, summarizing of data in tables and graphs, compu- tation of descriptive statistics, rules of probability, probability distributions, confidence interval estimate of population parameters, hypothesis testing and simple linear regression.			
BG 1400	Business Law I (Civil & Commercial)	3 Credits	
Legal principles and practices of civil and commercial laws, fundamental principles of law, legal relationship between persons, nature of law, definition, types, interpretation, application, and cancellation of law and the judicial system, law on persons, types and capacity of persons, things, property, movable and immovable property, juristic acts, contract, obligation, torts, prescription, specific contracts e.g. purchase and sell contract, exchange, gift, hire of property, hire-purchase, hire of works, hire of services, carriage, loan, deposit, surtyship, mortgage, pledge, agency, brokerage, and insurance			
BG 1401 Prerequisite:	Business Law II (Partnership & Company) BG 1400 Business Law I	3 Credits	
Law of juristic person namely partnership and limited company, relationship among partners, shareholders and third person, establishment, management, auditing, increasing and decreasing of registered capital, dissolution and liquidation, relationship with the commercial bank concerning the bill of exchange, promissory note, cheque, and other legal instruments.			
BG 2000 Prerequisite:	English III BG 1002 English II	3 Credits	
	mic and career purposes, emphasizing organization of ideas and clarit	y of expression	
BG 2001 Prerequisite:	English IV BG 2000 English III	3 Credits	
Advented Familiah for and	main and severe events events atting which and analytical shills a		

Advanced English for academic and career purposes, emphasizing critical and analytical skills, and formulating logical and coherent opinions.

BG 2200 Prerequisite:	Statistics II BG 1201 Statistics I	3 Credits
	rrelation and regression analysis, ANOVA, index number, time solications in business and economics.	series, non parametric tests,
BG 2207 Prerequisite:	Engineering Mathematics BG 1205 Calculus II	3 Credits
	order ordinary differential equations, difference equations, function ineering.	ons of complex variable and
BG 2208	Discrete Mathematics	3 credits
	theory, counting, probability, graph theory, machine and languages	s.
BG 2209 Prerequisite:	Statistics for Engineers BG 1204 Calculus I	3 credits
Sets and probability, ra	andom variables, probability distribution, continuous and discrange, hypothesis tests, regression and linear correlation.	ete models, parameters ap-
BG 2301	Information Technology for Nurses	2 Credits
	applicable to healthcare and nursing service, use of specific app m.	plications or programs in the
BG 2400	Macroeconomics	3 Credits
production, national ind government and Centra	nomic system, relationship between microeconomics and mac come, output, saving and investment, economic growth, consur I Bank in fiscal and monetary policies, balance of trade, balance is in a basic economic development, various economic problems t and business cycles.	nption behavior, role of the of payment, importance and
BG 2401	Microeconomics	3 Credits
Microeconomics concep level), pricing mechanis sic economic theory thr	Its and theories in making decision at firm level and consumer m, demand and supply, market equilibrium, consumption behav ough the perfectly competitive model, input and output markets theory of price determination, profit-maximization, and wage deter	vior, utility maximization, ba- and the connection between
BG 2403	Introduction to Economics	3 Credits
Basic economic princip change activities take p ducers including the pr	les and analysis of the economic environment in which consu place. The course will cover the analysis of economic decision m rice mechanism. Demand and supply analysis in product and fa Supply Analysis, GNP and NI measurement of the whole economy w	ade by consumers and pro- ctor markets, the Aggregate
BG 4000 Prerequisite:	Advanced Engineering Mathematics BG 2207 Engineering Mathematics	3 credits
Partial differential equa applications in enginee	itions; fourier analysis; boundary value problems; introduction ring; linear mapping and dimensions; vector spaces and subsp ig; complex integrals; residue theory.	
BIS 1141	Business Software Applications	0 Credits
Training of how to use	various software packages for personal and business application readsheet, Internet applications, and presentation tools.	ons with emphasis on word
BIS 2180 Prerequisite:	Information Technology BIS 1141 Business Software Applications	3 Credits
Types of information te	chnology including system unit, I/O devices, storage devices, co on processing, functions and their applications in business.	ommunications devices, soft-

BIS 3315 Prerequisite:	Programming and Algorithms BIS 2180 Information Technology	3 Credits
	based on selected programming languages, essential programming n coding and debugging.	tools, logics and
BIS 3340 Prerequisite:	Computer Tools in Research BIS 1141 Business Software Applications	0 Credits
	stical software tools to conduct research including data collection, p tical features	rocessing and pre-
BIS 3348 Prerequisite:	Principles of Multimedia BIS 1141 Business Software Applications	3 Credits
Introduction to the theories issue of creating and editing	and concepts of various multimedia types: image, audio, video and ar multimedia with the tools and techniques of digital media applicatio oth the aesthetic and technical aspects of multimedia design.	
BIS 3349 Prerequisite:	Fundamentals of Computer Graphics BIS 1141 Business Software Applications	3 Credits
	omputer graphics, skills and techniques in implementation of the de- programs.	sign by the use of
BIS 3515 Prerequisites:	Object-Oriented Concepts and Architecture BIS 3315 Programming and Algorithms	3 Credits
Advanced study of Object-o syntax, object-oriented theo	priented methodologies and programming for business information ry, object-oriented programming in C#, error handling, graphical user nent for stand-alone or enterprise applications.	
BIS 3567 Prerequisites:	Human Computer Interaction BIS 2180 Information Technology	3 Credits
Techniques and tools for th	ne analysis, design, implementation and testing of human-computer approaches to software requirements analysis, rapid prototyping and usal	
BIS 3577 Prerequisite:	Online Media for Business BIS 2180 Information Technology	3 Credits
The effects and role of onl also provides the opportuni into the marketing functions video marketing in consume	ine media on marketing communications, public relations in produc- ities, problems, tactics and strategies associated with incorporating e s. The new role of online media such as social media, search optimiz er behavior and implications for online strategies. Digital marketing odels, and future trends in digital marketing	electronic methods ation (SEO), online
BIS 3587 Prerequisites:	Principles of Electronic Commerce BIS 1141 Business Software Applications BIS 2180 Information Technology	3 Credits
Principles of electronic communication sary mechanism, HyperText	merce with emphasis on how to establish electronic commerce toget Markup Language (HTML), web-developing tools, multimedia, skills rce, and multimedia concepts.	
BIS 3588 Prerequisite:	Digital Business Enterprise BIS 2180 Information Technology	3 Credits
Knowledge of information story creates a new infrastruction	ystems from both technological and managerial perspectives, how In ture for the digital integration of a business enterprise ranging from a INC), and management challenges and opportunities derived from ir issues.	small company to

BIS 3589 Prerequisite:	Analysis Tools in Finance and Accounting BIS 1141 Business Software Applications	3 Credits
Spreadsheet software for	various finance and accounting applications, specific applications of ysis, capital budgeting, stock and bond valuation	financial statements,
BIS 3617 Prerequisite:	Web Design and Programming BIS 2180 Information Technology	3 Credits
Design and management	of websites for electronic business applications, aligning electronic b a website, programming for website, using web development ar ness.	
BIS 3618 Prerequisite:	Selected Programming Language BIS 1141 Business Software Applications	3 Credits
	particular interest, features and application of that specific language gging.	to create information
BIS 3635 Prerequisites:	Database Systems BIS 2180 Information Technology	3 Credits
Data models with focus or	n relational database systems and design through entity-relationship ent system (DBMS), query, integrity and security of database.	diagram and normal-
BIS 3647 Prerequisite:	Digital VDO Editing BIS 3348 Principles of Multimedia	3 Credits
	editing software package as a tool to develop motion picture presen nd audio effect.	ntation, digital video,
BIS 3655 Prerequisites:	Data Communications and Networking BIS 2180 Information Technology	3 Credits
	computer networks, communication devices, transmission media, va ty, and management.	rious network proto-
BIS 3666 Prerequisite:	Information Systems Analysis and Design BIS 3635 Database Systems	3 Credits
Methodical approach by	emphasizing strategies, tools and techniques of systems analysis asibility study to design interfaces, databases, processes, managemen naintenance.	
BIS 3687 Prerequisite:	Electronic Banking and Payment Systems BIS 2180 Information Technology	3 Credits
Financial challenges, risk, financing available for elec	and opportunities of building electronic banking and its related b tronic business ventures, deal structures defining financing transactic ging electronic banking and payment models.	
BIS 4625 Prerequisite:	Computer Organization and Architecture BIS 2180 Information Technology	3 Credits
Overview of computer org	anization and architecture including central processing unit, system in cache memory, input/output, digital logic, computer arithmetic, instru em.	
BIS 4675 Prerequisite:	Information Systems Project Management Senior Standing (106 credits and above)	3 Credits
	vstem project management, how to oversee or take part in all proj	ect activities project

Concepts of information system project management, how to oversee or take part in all project activities, project planning and modeling, budgeting, information technology management, and business objective realization.

BIS 4697	Current Topics in Business Information Systems	3 Credits
Prerequisite:	Senior standing and completion of 106 credits	

Critical examination of current topics in the field of Business Information Systems. Discussion with entrepreneurs and leaders from technology companies to share real-world experiences across entrepreneurial settings. Demos and hands-on experiences with current business applications.

BIS 4698 Prerequisite:	Selected Topics in Business Information Systems By Consent of Instructor	3 Credits
A selected topic in the field	of Business Information Systems.	
BIS 4699 Prerequisite:	Advanced Topics in Business Information Systems By Consent of Instructor	3 Credits
	the field of Business Information Systems.	
BIS 4718 Prerequisites:	Web Applications Development BIS 3617 Web Design and Programming BIS 3635 Database Systems	3 Credits
Development of web appl way, database management	ications sites for database-driven Websites up and running in an nt with Web based DBMS, Application Server, and using web de nd complex web applications.	5
BIS 4747 Prerequisite:	Graphics and Animation BIS 3348 Principles of Multimedia	3 Credits
Introduction of concepts a	nd theories of 2-D /and 3-D animation, storyboard writing and to create the graphics artwork.	he use of sophisticated
BIS 4748 Prerequisite:	3-D Modeling and Animation BIS 3348 Principles of Multimedia	3 Credits
Principles and techniques	of three dimensional computer modeling and animation, 3-D sol is, lighting and rendering, animation quality and application of ke nt.	
BIS 4757 Prerequisite:	Local Area Network Concepts BIS 3655 Data Communication and Networking	3 Credits
Practical approach regardi	ng comprehensive introduction of Local Area Networks including ating in LAN Technology, in-depth knowledge on Client/ Server t	
BIS 4766 Prerequisite:	Business Process Reengineering BIS 3666 Information Systems Analysis and Design	3 Credits
Design of an organization formation technologies to	's structure and business processes, as well as the workflow ap transform organizations and improve their performance and meth echnologies to enable organizational change	
BIS 4787 Prerequisite:	Data Structure BIS 3515 Object-Oriented Concepts and Architecture	3 Credits
type, stacks, queues, lists,	ing the Java programming language. Basic concept of data structurees, dictionary etc. Algorithm and manipulation of Information structure for business information systems.	
BIS 4788 Prerequisites:	Data Warehouse and Data Mining BIS 3635 Database Systems	3 Credits
	housing design, data architecture and modeling, database desig	

Introduction to data warehousing design, data architecture and modeling, database design and database access, issues in data warehouse planning, design, implementation and administration, exploration of a contemporary data mining, tools and patterns in data mining and online analytical processing (OLAP).

3 Credits

Fundamental concepts, programming framework, and software tools for mobile application software development, design and programming of mobile user interfaces, inter-activities communication, data persistency, network programming, telephony, geo-location, multimedia, security, and business development plan for mobile applications.

BIS 4848	Integrated Multimedia Applications	3 Credits
Prerequisites:	BIS 3647 Digital VDO Editing and	
	BIS 4747 Graphics and Animation	

Concepts, strategies and techniques of interactive multimedia, which combines various forms of multimedia items, and practical project to allow hands-on experience in integrating multimedia work pieces as "hypermedia."

BIS 4858	Information Systems Security	3 Credits
Prerequisite:	BIS 3655 Data Communications and Networking	

Overview of the procedures and technologies to secure business information systems by learning to identify information security risks, to understand legal and ethical issues, to apply security technologies such as encryption and firewall, and to implement information security controls and maintenance of information security. The concepts of information systems security planning and the development of policies are included.

BIS 4875	Strategic Technology Management	3 Credits
Prerequisite:	Senior standing and Completion of at least 106 credits	

Technical foundations and significance of information systems to management, roles of information, people, management, and organization, information policies, network-oriented computing, and organizational change management as well as strategic information system, enterprise resource planning to support management action and decision-making.

BIS 4878	Software Risk Management	3 Credits
Prerequisite:	BIS 3666 Information Systems Analysis and Design	

Practical techniques, concepts and methodologies of software development process, including analysis and design, efficient coding, testability, modular decomposition verification, debugging, and performance analysis.

BIS 4897	Seminar in Business Information Systems	3 Credits
Prerequisite:	Senior standing and Completion of a 106 credits	

Critical examination of information and communication technology (ICT) in the realm of business. Students will read, present, discuss and debate on weekly readings on topics that cover both contemporary theories and practice.

BIS 4886	Directed Study I	3 Credits
Prerequisite:	By Consent of Instructor	
A student may carry out a re	search topic directed by an appointed advisor.	
BIS 4887	Directed Study II	3 Credits
Prerequisite:	By Consent of Instructor	
A student man senting t		dimente di la como
appointed advisor.	ne research topic from Directed Study I or carry out a new research topic	arrected by an
BIS 4996	BIS Senior Project	3 Credits
Prerequisites:	BIS 3666 Information Systems Analysis and Design	
	BIS 4675 Information Systems Project Management	
	Senior standing and completion of 106 credits	

Research project for students to apply all the acquired knowledge in an information system development project including system design and computer application development based on a real business solution. Students must produce professional and system documentation, and defend their projects with the appointed committee

BS 1001 **General Chemistry** 3 Credits Fundamental chemistry, atomic theory and electronic structure of atom, bonding theory, stoichiometry, periodic table as a survey of representative and transition elements and periodic properties, gas and kinetic theory of gas, acids/ bases chemistry including acid base chemical equilibrium, oxidation-reduction and basic thermodynamics. BS 1002 General Chemistry Laboratory 1 Credit Prerequisite or Co-requisite: BS 1001 General Chemistry Safety in laboratory and use of basic chemical instrument, experimentation techniques in measurement and accuracy, molecular structure, chemical reactions, determination of pH of solution and titration, relative quantity, colligative properties of solution, techniques and basic theory in qualitative analysis. Principles of Biology BS 1005 3 Credits Life, prokaryotic and eukaryotic cell structure and functions of organelle in the cells, cell division, and gamete production, pattern of inheritance, gene expression, energy and photosynthesis, study of animal cells and plant cells, ecology, behavioral science and evolution. **Biology Laboratory** 1 Credit BS 1006 Prerequisite or Co-requisite: BS 1005 Principles of Biology Laboratory corresponding to BS1005 Principles of Biology, general concepts of microscope usage, plant and animal cell structure, somatic cell division including the production of reproductive cells, energy and photosynthesis. Organic Chemistry **3** Credits BS 1007 Fundamental theories of organic chemistry involving the classification of organic compounds according to their functional groups, nomenclature and structure, reactions of organic molecules including synthesis and reaction mechanisms. BS 1008 Organic Chemistry Laboratory 1 Credits Prerequisite or Co-requisite: BS 1007 Organic Chemistry _____ Safety in laboratory and use of apparatus, physical characteristics of organic substances e.g. melting point, boiling point, solubility, and analytical techniques of organic substances e.g. separation, purification, and techniques used for the identification of functional groups in organic compounds. BS 1101 Calculus I for Bioscience 3 Credits _____ Changing of value with respect to factors, differentials, second and higher order differential, and basic differentiation, basic integration, indefinite and definite integration, and higher order integration, applications of basic calculus, i.e. sketching the curves, optimization, surrounded area by curves, volume of geometrics and calculus questions. BS 1102 Calculus II for Bioscience 3 Credits BS 1101 Calculus I for Bioscience Prerequisite: _____ Multivariable function, changing of value of multivariable function with respect to factors, chain rules for multivariable function, partial derivative and its application; 3-D geometrics function by rectangular coordinate, cylindrical coordinate and spherical coordinate; evaluation of the area and volume of those 3-D geometric shapes, principles of vector in mathematics including basic vector operations, transition of general vector and vector-valued function, velocity, acceleration, direction of an objects, tangent vector, and normal vector, described by vector-valued function, and line integral. 3 Credits BS 1201 Physics for Bioscience Basic knowledge of physics including units, vector, force and motion, Newtonian motion, work and energy, conservation of energy and momentum, fluids mechanics, internal energy and fundamental heat transfer, thermodynamics, waves and sound, electricity and magnetism, light and color and introduction to advance physics for bioscience.

BS 1202	Physics Laboratory for Bioscience	1 Credit
Prerequisite or Co-requisite:	BS 1201 Physics for Bioscience	

Laboratory corresponding to BS1201 Physics for Bioscience.

BS 2004 Prerequisite:	Analytical Chemistry BS 1001 General Chemistry	3 Credits
Quantitative chemical analys	is, steps involved in the preparation and analysis of a sample, analysi ric methods; especially, acid-base titration, precipitation titration, redox	
BS 2005 Prerequisite or Co-requisite:	Analytical Chemistry Laboratory BS 2004 Analytical Chemistry	1 Credit
Chemistry analysis exercises theories and techniques, in	emphasizing on quantitative chemical analysis of chemical sample cluding chemical sample preparation and analysis techniques using y acid-base titration, precipitation titration, redox titration technique.	
BS 2006 Prerequisite:	Basic Biochemistry BS 1007 Organic Chemistry	3 Credits
Structure, function and meta	bolism of biomolecules including carbohydrates, lipids, amino acids, pro ation and functions of proteins, enzymes and vitamins, the introductio g.	
BS 2007 Prerequisite or Co-requisite:		1 Credit
	BS 2006 Basic Biochemistry, preparation of buffers, analysis of biom ent and instruments.	olecules proper-
BS 2008 Prerequisite:	Physical Chemistry BS 1001 General Chemistry	3 Credits
Unit conversions, physical pr	roperties of gas and kinetic theory of gas, energy and work, the first I and third laws of thermodynamics, free energy and applications of thermo	
BS 2011 Prerequisites: and	Introduction to Microbiology BS 1005 Principles of Biology BS 1006 Biology Laboratory	3 Credits
Overview of microbiology in biology, growth and metabo	both theoretical and practical aspects, eukaryotic and prokaryotic micro lisms of microorganisms, microbial genetic, classification and identificat nvironment and in the industries and corresponding laboratory sessions.	
BS 2012 Co-requisite:	Genetics BS 2011 Introduction to Microbiology	3 Credits
mosome mapping, molecula scription, translation, control	cs, Mendel's principles, exception of Mendel, sex determination, sex lir r genetics which includes the structure and functions of DNA, DNA of gene expression and extra chromosomal inheritance, and the study litative genetics, and corresponding laboratory sessions.	replication, tran-
BS 2013	Engineering Drawing for Bioscience	1 Credit
	ng, lettering, applied geometry, theory and technique of orthographic on view, and assembly drawing	Irawing, pictorial
BS 4001 Prerequisite:	Ecology, Conservation and Environmentalism BS 1005 Principles of Biology	3 Credits
Biological productivity in ecc in population growth and the	system and limiting productivity and perturbation, interaction between ecological balance, protection activities of the environment from pollutic rovement and sustainability of natural resources.	

Introduction and historical perspective of biotechnology, the relationship between traditional biotechnology and modern biotechnology, examples of application drawn from agriculture, medicine, and molecular biotechnology, commercial dimension of the discipline of biotechnology in market place.

BT 3013	Introduction to Bioprocessing Engineering	3 Credits
Prerequisites:	BS 1102 Calculus II for Bioscience	
and	BS 2008 Physical Chemistry	

Introduction to chemical engineering principles importance of understanding bioprocess operation and bioreactor design, unit conversions, material and energy balances, fluid flow, heat and mass transfer, reaction kinetics, and bioreactor operation.

BT 3014	Microbial Physiology	3 Credits
Prerequisite:	BS 2012 Genetics	

Microbial structures and functions to understand how physiology relates to microbial growth and survival. Bacteria are used as the primary model and are focused on the molecular aspect of cell growth, structure and functions, cell envelope, cellular metabolism and genetics, and corresponding laboratory sessions.

BT 3015	Industrial Fermentation	3 Credits
Prerequisite:	BS 2011 Introduction to Microbiology	

Selection of microbial culture, and the use of microorganism for the production of industrial products, food products, enzymes, antibiotics and organic compounds, cultural improvement, emphasizing on the metabolic regulation of the pathways that generate fermentation products from yeast and other microbial fermentations, and genetic manipulation of industrial microorganisms, and corresponding laboratory sessions.

BT 3016	Enzyme Technology	3 Credits
Prerequisite:	BS 2006 Basic Biochemistry	

Structure and functions of enzymes, including enzyme kinetics, regulation and inhibition, effect of pH and temperature, production and extraction of enzymes by means of mechanical, physical or chemical disruption of plant, animal or microbial cells, techniques such as purification, immobilization and isolation of enzymes as catalysts, and corresponding laboratory sessions.

BT 3017

Principles of Research SINCE 1969

3 Credits

Introduction to research methodology, experimental design, hypothesis generation, literature review, collection and analysis of the data, use of spread sheet packages to perform statistical analysis, summarizing and writing a research report, presentation, and ethical principles of a researcher.

BT 3018	Genetic Engineering	3 Credits
Prerequisites:	BS 2006 Basic Biochemistry,	
	BS 2007 Basic Biochemistry laboratory	
and	BS 2012 Genetics	

Molecular biology and techniques of genetic engineering, application of enzymes, vectors, and host gene isolation, detection of recombinant genes, strategies of gene cloning, genomic libraries, cDNA synthesis, gene identification, application of genetic engineering, ethical issues in genetic engineering, and corresponding laboratory sessions.

CA 1001	Introduction to Communication	3 Credits

Principles of communication, definition and types of communication, including principles of intrapersonal communication, interpersonal communication, small group communication, public communication and mass communication.

CA 1002 Introduction to Photography and Cinematography 3 Credits

Basic theories and practice of photography and cinematography, uses of equipment, composition, principles of setting, types of lens through the applications in digital photography. Students will be assigned to create photographs suitable for various types of communication.

CA 1012	Macro-environment, Media Effe	· · · · · · · · · · · · · · · · · · ·	3 Credits
environmental structur as skills, tools, vocabul	es of the macro-environment structur es), its relationship to media and ind aries to understand the important role s skills of experiencing, interpreting, anal	ividuals, including the con e media play in shaping,	cial, technological, legal, and ncepts of media literacy such reflecting, and subverting the
CA 2016 Prerequisite:	Psychology for Persuasive Comm CA 1001 Introduction to Comm	unication	3 Credits
	d applications of basic psychology on compared and practices.		or persuasive communication,
CA 1017	Introduction to Creative Commu	unication Design	3 Credits
and structural element for story-telling, story-t including applicability	rtistic elements of creative communic ts of short stories, poetry, and film, lo elling forms and techniques, principles of these elements to other creative m content in the creation and presentation	lea generation and organ and applications of struct nedia. Students will be ass	ization across media platform ures and forms of story-telling signed to express their under-
CA 2003	Presentation Technique		3 Credits
	presentation, public speaking and the nunication skills.		
CA 2004	Introduction to Advertising		3 Credits
Theories in advertising analysis of products, m) and basic methods of advertising, ro narkets and consumers, process of adv xecution, creation of advertisements, f sing.	ole of advertising, product vertising, advertising plann	ning, selection of media, judg-
CA 2005	Introduction to Public Relations		3 Credits
Basic principles of pub characteristics of publ	lic relations, process of public relations ic relations in organizations, such as ions, including ethics for public relations	s, target group and equip business organizations, g	
CA 2007	Introduction to New Media and	-	3 Credits
digital practices and cu sion and new media,	communications media and technolog Iltures that began mid-century and cor general program production, function ion of new media projects.	ntinues to the present, the	e development of radio, televi-
CA 2013 Prerequisite:	Utilization of Multimedia Tools CA 1017 Introduction to Creativ	9	3 Credits
Strategies to use broad	dcast and multimedia applications for a nof communication materials.		
CA 2015	Introduction to Performance Co	mmunication	3 Credits
	ne process of communication through		

Introduction to Journalism and Mass Communication

CA 1006

and a broadcast.

3 Credits

Concepts of mass communication and mass media, functions of mass communication, theories and effects of mass communication, principles of journalism such as news gathering and reporting, news flow, wire services, media differences in news coverage including ethical concerns.

personnel and job allocation needed in putting up a performance as well as considerations to be made for a stage

CA 2016 Prerequisite:	Psychology for Persuasive Communication CA 1001 Introduction to Communication	3 Credits
	blications of basic psychology and social psychology for persuasives and practices.	e communication,
CA 2018 Prerequisite:	Consumer Insight CA 2016 Psychology for Persuasive Communication	3 Credits
Framework for customer insi munication and marketing p niques for developing custo	ghts, aspect of consumer decision-making and application of these propositions, fundamentals of customer value management, researd omer knowledge, customer insights and for becoming more custon n campaign such as advertising, public relations, performance comr tion.	ch tools and tech- ner-focused in the
CA 3011 Prerequisite:	Communication Arts Research BG 1203 Fundamentals of Statistics	3 Credits
Principles and methods of	research process, framework, and methodology, including application rojects in communication campaign.	on of methods in
CA 4010	Law and Ethical Concerns for Communication	3 Credits
Freedom, rights, duties, resp ing regulation, copyright la	onsibilities and ethical considerations of communication professiona w, advertising regulations and self-regulations, telecommunication ns, rating and censorship of entertainment materials.	and the second
CE 2102	Data Structure and Algorithms	3 credits
Various type of data structu	rre, e.g., array, string, stack, queue, dequeue, tree, binary tree, B-tree e allocation; coding; table handling.	e, AVL – tree; data
CE 2703	Introduction to Computer Systems	3 credits
Digital computer organizatio	n, memory unit, input-output device units, A/D conversion, D/A cor multi-utilization, multiprogramming, multiprocessing, on-line comp gn.	
CE 2704 Prerequisite: or	Digital Logic Design EE 3601 Electronics Circuit Design EE 2605 Engineering Electronics	3 credits
Number system, logic com method, combination logic	bination, logic systems and Boolean algebra, comparator, Karnaug circuit, adder, subtract, multiple output circuits, encoder, decoder, r uits: synchronous and asynchronous circuits, flip-flops, counter circuits, r	nultiplexer, demul-
CE 2705 Prerequisite or Co-requisite:	Digital Logic Design Laboratory CE 2704 Digital Logic Design.	1 credit
Experiments on the designs	of Gate, digital and switching circuits, interconnection of logic module ories and small computer circuits.	es, counter, control
CE 2709 Prerequisite:	Computer Architecture CE 2703 Introduction to Computer Systems CE 2704 Digital Logic Design	3 Credits
Architecture of a general-pu	urpose computer, design methodology, basic concepts of computer	r control, memory

Architecture of a general-purpose computer, design methodology, basic concepts of computer control, memory hierarchies, input-output organization, advanced computer architecture.

CE 3002	Commercial Application Programming	3 credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Language fundamentals, Library IDE (Integrated Development Environment) and high-level languages used in developing a commercial application.

CE 3103	Computer Operating Systems	3 Credits
Prerequisite:	BG 1205 Calculus II	
	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Components and types of operating systems, command interpreter, management of main storage, file storage, data management, I/O management, device management; resource protecting; freestanding systems, disk operating systems, real-time operating systems, multiprocessor operating systems.

3 Credits

CE 3104	Software Engineering
Prerequisite:	CE 2101 Introduction Data Structure
or	CE 2102 Data Structure and Algorithms

Software design techniques; problem definition; function design; modular program; program design; hierarchy input and output process; detailed design; decision tables; pseudo code; debugging test data; software reliability; software maintenance; design and development of large scale software.

CE 3105	Microprocessor Programming Using Assembly & C	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Computer architecture, operation and instruction; programming languages; assembly language programming; arithmetic programs; loops and arrays; mnemonic operations; subroutines; characteristic and operation of assemblers, interfacing assembly with the high-level language (C language), using C to interact with hardware.

CE 3106	Programming Languages	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Definition of language including specification of syntax and semantics; programming techniques of selected languages, namely, BASIC, FORTRAN, PL/1, PASCAL; language structure, data types, run-time environment.

Database Management Systems	3 Credits
CE 2101 Introduction to Data Structure	
CE 2102 Data Structure and Algorithms	
	CE 2101 Introduction to Data Structure

Models and theories of database design: hierarchical, network, and relational models; data description languages; query facilities, data integrity and file security.

CE 3111	Design and Analysis of Algorithms	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Techniques of design and analysis of algorithms for internal and external sorting, searching and margins; NP-hard problems.

CE 3707	Microprocessor Systems Design	3 Credits
Prerequisite:	CE 2709 Computer Architecture	

Microprocessor architecture; control unit; memory; input-output units; microprocessor construction; registers; index and stack pointers; addressing modes; interfacing techniques (RAM, ROM, ...); micro-processor programming.

CE 3710	Microprocessor Systems Design Laboratory	1 Credit
Prerequisite or Co-requisite:	CE 3707 Microprocessor Systems Design	

Microprocessor and computer hardware experiments; machine and assembly language programming for microprocessors; instructive effect on hardware; digital design for microprocessor programming.

CE 3901	Digital Audio/Video Coding Technique	3 Credits
Basics technique of audio/	video encoding.	
CE 4001	Software Development Laboratory	2 Credit
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
	mentation. One software project will be assigned as case study.	
CE 4002	Introduction to Broadcasting Technology	3 credits
Prerequisite:	CE 4228 Data Communication and Networking	
	in the broadcasting technology e.g. Broadcasts protocol, video editing	g technology.
CE 4106	Object-Orient Programming	3 Credits
Prerequisite:	CE 3106 Programming Languages	
Object-oriented design a	nd object-oriented software construction; design and construct; on nent; polymorphism analysis; frameworks and design patterns;	
CE 4108	Operations Research	3 Credits
Prerequisite:	BG 2207 Engineering Mathematics	
Scientific methods of oper ry, simulation, and applicat	erations research, linear programming, dynamic programming, gar tions of these techniques to industrial operations.	
CE 4109 Prerequisite:	Information Systems Analysis and Design CE 2101 Introduction to Data Structure	3 Credits
or	CE 2102 Data Structure and Algorithms	
	ata processing system; information system design; data storage a design, sequential, indexed, VSAM, ISAM.	nd data classification; er-
65 (AAA	OP DESTRUCTION OF THE PARTY OF	
CE 4110	Compilers	3 Credits
Prerequisite:	CE 3106 Programming Languages	
	structures; compiling systems, lexical analysis, syntax and ser stics and recovery, code generation, examples of typical compilers.	mantics analysis, parsors,
CE 4114	Data Mining	3 Credits
Prerequisite:	CE 3108 Database Management Systems	
Fundamental concepts of o	data mining; data mining methodologies; classification; association ru	ıles; clustering.
CE 4201	Image Processing and Computer Vision	3 Credits
Prerequisite:	CE 1100 Computer Programming for Engineer	
or	BG 1220 Fundamental of Computer Processing	
or	BG 1221 Computer Programming or Equivalent	
	nage processing including such topics as digital image represent rmats, edge detection, image segmentation, object recognition, moti	
CE 4207	System and Network Programming	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	
	C++ applied to object oriented programming concept of abstrac	t data type, classes, data

Syntax and semantics of C++ applied to object oriented programming concept of abstract data type, classes, data hiding, polymorphism and inheritance. General introduction to UNIX operating system and UNIX file system, and use of UNIX system calls in C++.

CE 4221	Network Applications and Technology	3 Credits
Prerequisite:	CE 2101 Introduction to Data Structure	
or	CE 2102 Data Structure and Algorithms	

Internet/Intranet technology, Web technology, protocols, and applications including HTML, OGL, Java, database, security, Internet engineering effort, parameters of the technical Internet/Intranet environment, contributing technologies of today's Internet/Intranet, new directions already emerging, and surveying the imminent technologies shortly created and brand new telecommunications environment quite different from today's paradigm.

CE 4223	Advanced Computer Networks	3 Credits
Prerequisite:	CE 4222 Computer Networks	
or	CE 4228 Data Communication and Networking	

Hardware and software organization for computer communication networks, using the 7-layer Open System Interconnection Reference Model and IP protocol suite as a basis for study, typical designs for computer network protocols from the hardware through the communications software and application software levels, using LAN, TCP/IP and OSI protocols as examples including internetworking concept and technology.

CE 4224	Telecommunication Networks Laboratory	1 Credit
Prerequisite:	Completion of 90 Credits	

Setup and test of LAN network (Ethernet), install and setup the Network Operating System, window NT, Novell NetWare, and UNIX, including network management system, network printer, file transfer etc. Setup and operation of Internet Server and Client.

CE 4225	Computer and Network Security	3 Credits
Prerequisite:	CE 4222 Computer Networks	
or	CE 4228 Data Communication and Networking	

Security techniques for both network and database; cryptography technique; concept, scheme, secret key; public key, Hash algorithm, authentication and digital signature; Firewalls World Wide Web security, and Internet security protocol in both theory and practice.

CE 4226	Network Systems Analysis and Design	3 Credits
Prerequisite:	CE 4222 Computer Networks	
or	CE 4228 Data Communication and Networking	

Analysis and design of networks; methods to analyze the existing networks, redesign the existing network or design and evaluate the network; queuing theory, traffic analysis, security, reliability, availability and flexibility.

CE 4227	Mobile and Wireless Networks	3 credits
Prerequisite:	CE 4222 Computer Networks	
or	CE 4228 Data Communication and Networking	

Mobile cellular phone systems, wireless data networks with an emphasis on protocols above the physical layer, multiple access control, mobility management, hand-over, roaming, routing, transport protocol, security, network planning, and capacity estimation.

CE 4228	Data Communication and Networking	3 credits
Prerequisite:	TE 3000 Principles of Communications	
or	TE 3003 Fundamental of Communication Systems	

Introduction to data communications and networks; layered network architecture; point-to-point protocols and links; delay models in data networks; multi-access communication; routing in data networks; data flow control; data security.

CE 4711	Microcomputer Interfacing Laboratory	1 Credit
Prerequisite:	CE 3708 Microprocessor Systems Design Laboratory	

Techniques of microcomputer interfacing; A/D and D/A conversions; parallel interface; CRT character generator; direct memory access; stepping motor; modem; single chip microcomputer;

CE 4713 Prerequisite:	Advanced Computer Architecture CE 2709 Computer Architecture	3 Credits	
Microcomputer, minicomput stack, multi-processors.	er and mainframe architectures; computer system organizations pipe	eline processors,	
CE 4714 Prerequisite:	Fault-Tolerant Computer CE 2704 Digital Logic Design	3 Credits	
Maintainable and diagnosab		e; simulation for chniques; design	
CE 4715 Prerequisite: or and	Artificial Intelligence CE 2101 Introduction to Data Structure CE 2102 Data Structure and Algorithms CE 2703 Introduction to Computer Systems	3 Credits	
Programming languages; LIS	P, PROLOG; evolution of AI; grammar and languages; survey of curren nswering and inference; visual perception.	t Al techniques;	
CE 4905 Prerequisite:	Computer and Network Engineering Project I Completion of 100 Credits	1 Credit	
	project in Computer and Network Engineering. Students must submit re	ports at the end	
CE 4906 Prerequisite:	Computer and Network Engineering Project II CE 4901 Computer and Network Engineering Project I	2 Credits	
Continuation of project done the semester.	e in Computer and Network Engineering Project I. Report is also require	ed at the end of	
CE 4905 Prerequisite:	Advanced Topics in Computer Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits	
	new developments on computer engineering.		
CE 4906 Prerequisite:	Special Problems in Computer Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits	
••••••	lems assigned by the instructor with the consent of the Faculty; a writ	ten report is re-	
CEL 1101	Sight Reading Lab I	1 Credit	
chord changes, time-feels, a	ins to further develop listening skills, reading notation, concepts of r nd grooves applied to singing rhythms and pitches simultaneously; sigh sic, and specific arrangements.	nythm, intervals, nt-reading which	
CEL 1102 Prerequisite:	Sight Reading Lab II CEL 1101 Sight Reading Lab I	1 Credit	
A continuation of Sight Reading Lab I. Additional concentration on singing on chordtones, seventh chords, minor chords, and modes in different time-feels and grooves.			
CEL 1510	Pop/Rock Ensemble I	1 Credit	
	the song based on repertoire of pop and rock idioms. Typical instrum	nentation: piano,	
CEL 1511	Jazz Ensemble I	1 Credit	
	s with focus on the performance of various jazz styles. Typical instrum	nentation: piano,	

CEL 1512	Vocal Ensemble I	1 Credit
Instrumental/vocal ensemble drums, guitar, vocals.	s with emphasis on songs and vocal repertoire. Typical instrumentati	on: piano, bass,
CEL 1513	Funk/Fusion Ensemble I	1 Credit
Performance of funk and fus	sion arrangemented by contemporary groups as well as student comp nesizer, piano, guitar, bass, drums, and percussion.	ositions. Instru-
CEL 1514	Blues/R&B Ensemble I	1 Credit
Instrumental/vocal ensemble: mentation: piano, bass, drums,	s that focus on the performance of blues and rhythms & blues styles	. Typical instru-
CEL 1515	Latin Ensemble I	1 Credit
	ce of Latin American music styles and Latin American rhythms. Instrum	entation: mixed 1 Credit
	II group performance of the song based on repertoire of pop and rock Irums, guitar, vocals.	idioms. Typical
CEL 2511 Prerequisite:	Jazz Ensemble II CEL 1511 Jazz Ensemble I	1 Credit
	umental/vocal ensembles with focus on the performance of various jaz Irums, guitar, vocals.	z styles. Typical
CEL 2512 Prerequisite:	Vocal Ensemble II CEL 1512 Vocal Ensemble I	1 Credit
	s with emphasis on songs and vocal repertoire. Typical instrumentation	on: piano, bass,
CEL 2513 Prerequisite:	Funk/Fusion Ensemble II CEL 1513 Funk/Fusion Ensemble I	1 Credit
Further development of perfo	ormance of funk and fusion arrangemented by contemporary groups as a: mixed winds, synthesizer, piano, guitar, bass, drums, and percussion.	well as student
CEL 2514 Prerequisite:	Blues/R&B Ensemble II CEL 1514 Blues/R&B Ensemble I	1 Credit
Further development of instrumental/vocal ensembles with focus on the performance of blues and rhythms & blues styles. Typical instrumentation: piano, bass, drums, guitar, vocals.		
CEL 2515 Prerequisite:	Latin Ensemble II CEL 1515 Latin Ensemble I	1 Credit
Further development of ensembles for the performance of Latin American music styles and Latin American rhythms. Instrumentation: mixed winds, bass, drums, guitar, percussion.		
CET 1811	Foundation Chinese I	3 Credits
Basic skills in listening, speaking, reading and writing in Mandarin: Mandarin phonetic system (Pinyin), pronuncia- tion and conversation focusing on basic vocabulary		
CET 1812	Foundation Chinese II	3 Credits
Prerequisite:	CET 1811 Foundation Chinese I	
More basic skills in listening,	speaking, reading and writing in Mandarin: more vocabulary, Chinese	characters and

More basic skills in listening, speaking, reading and writing in Mandarin: more vocabulary, Chinese characters and sentence patterns focusing on everyday conversation

sentence patterns focusing on everyday conversation

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CET 1821	Chinese Listening and Speaking I	3 Credits	
Listening to daily conversation	n and practice of pronunciation		
CET 1822	Chinese Listening and Speaking II	3 Credits	
Prerequisite:	CET 1821 Chinese Listening and Speaking I		
Listening to topics related to c	daily life and practice of common daily dialogues in Mandarin		
CET 1831	Chinese Reading and Writing I	3 Credits	
	rs and Chinese characters, writing basic sentences and reading basic	published materi-	
CET 1832	Chinese Reading and Writing II	3 Credits	
Prerequisite:	CET 1831 Chinese Reading & Writing I		
Writing paragraphs and speed	reading on various kinds of Chinese articles		
CET 1841	Chinese Grammar and Usage I	3 Credits	
	orders, sentence structures, interrogation, adverbials, sentences wit ctival predicate	h verbs as predi-	
CET 1842 Prerequisite:	Chinese Grammar and Usage II CET 1841 Chinese Grammar and Usage I	3 Credits	
Additional grammatical rule	s on sentences with a subject-predicate phrase as its predicate, e sentences, and grammatical supplements in Chinese language	numeration rules,	
CET 2813 Prerequisite:	Intermediate Chinese I CET 1812 Foundation Chinese II	3 Credits	
Intermediate skills in listenir	ng, speaking, reading and writing in Mandarin: vocabulary, complex liate level and Chinese expression in daily communication needs	sentence patterns,	
CET 2814 Prerequisite:	Intermediate Chinese II CET 2813 Intermediate Chinese I	3 Credits	
	stening, speaking, reading and writing in Mandarin: more vocabulary, intermediate level, expansion of Chinese expressions in oral communicat		
CET 2823 Prerequisite:	Intermediate Chinese Listening and Speaking I CET 1822 Chinese Listening and Speaking II	3 Credits	
	actice focusing on texts of intermediate level and self-expression on gene	ral topics	
CET 2824	Intermediate Chinese Listening and Speaking II	3 Credits	
Prerequisite:	CET 2823 Intermediate Chinese Listening and Speaking I		
Further practice of listening and conversation focusing on texts of intermediate level on various topics of interest in modern life at a mother-tongue speed			
CET 2833 Prerequisite:	Intermediate Chinese Reading and Writing I CET 1832 Chinese Reading and Writing II	3 Credits	
Reading business-related articles, correspondences and contracts, including writing simple diaries and essays			
CET 2834 Prerequisite:	Intermediate Chinese Reading and Writing II CET 2833 Intermediate Chinese Reading and Writing I	3 Credits	
	lated articles, technical articles, Chinese press reports and writing reports	and articles	
CET 2851	Chinese for Business I	3 Credits	
Prerequisite:	CET 1842 Chinese Grammar and Usage II		

Practice of four language skills on the usage of Chinese in business environments

CET 2852 Prerequisite:	Chinese for Business II CET 2851 Chinese for Business I	3 Credits
	usiness contexts and reading business reports	
CET 3815 Prerequisite:	Advanced Chinese I CET 2814 Intermediate Chinese II	3 Credits
	speaking, reading and writing in Mandarin, advanced vocabulary and g skills at the advanced level	rammatical rules
CET 3816 Prerequisite:	Advanced Chinese II CET 3815 Advanced Chinese I	3 Credits
More advanced skills in lister	ning, speaking, reading and writing in Mandarin, expansion of the vocatel, introduction to practical Chinese in business, economy and trade	oulary and gram-
CET 3851 Prerequisite:	Chinese for Economy and Trade I CET 2852 Chinese for Business II	3 Credits
	y and trade in Chinese and practice of four language skills in the cont	exts of economy
CET 3852 Prerequisite:	Chinese for Economy and Trade II CET 3851 Chinese for Economy and Trade I	3 Credits
	n international trade and economy focusing on speaking and reading skills	
CET 3853 Prerequisite:	Business Writing in Chinese I CET 2814 Intermediate Chinese I	3 Credits
 Vocabulary and formats in wri	iting business documents	
Prerequisite:	Business Writing in Chinese II CET 3853 Business Writing in Chinese I	3 Credits
	writing business documents in international trade environments and w	riting reports for
CET 3862 Prerequisite:	Chinese for Business Conversation I CET 2814 Intermediate Chinese II	3 Credits
Chinese oral communication i	in formal business encounters	
CET 3863 Prerequisite:	Chinese for Business Conversation II CET 3862 Chinese for Business Conversation I	3 Credits
	nplex genres of business and trade focusing on international trade	
CET 4853 Prerequisite:	Chinese for Economy and Trade III CET 3852 Chinese for Economy and Trade II	3 Credits
	n international trade and economy focusing on writing skills	
CET 4854 Prerequisite:	Thai-Chinese Translation in Economy and Trade CET 3816 Advanced Chinese II	3 Credits
	hinese on economy and trade topics, methodology of translation from texts	Thai to Chinese
CET 4861 Prerequisite:	Business Negotiation in Chinese CET 3816 Advanced Chinese II	3 Credits
	rstanding about international trade and the usage of Chinese langu	lage in business

Basic knowledge and understanding about international trade and the usage of Chinese language in business

CET 4871 Prerequisite:	Principles of Economics in Chinese CET 3816 Advanced Chinese II	3 Credits
	roeconomics principles and various basic theories of economics in Chinese	
CET 4872 Prerequisite:	Contemporary Chinese Economy and Trade CET 3816 Advanced Chinese II	3 Credits
	present macroeconomic and trade situation of China	
CET 4873	Reading Comprehension on Economy and Trade	3 Credits
Prerequisite:	CET 3816 Advanced Chinese II d to business, economy and trade and writing concise reports from the artic	les
CET 4874 Prerequisite:	Directed Studies in Economy and Trade CET 3854 Business Writing in Chinese II	3 Credits
	business in mainland China, Chinese corporate culture and Thai-Chinese rela	tionship
CET 4881 Prerequisite:	Business Research Methodology in Chinese CET 3854 Business Writing in Chinese II	3 Credits
	research paper writing, methods of research paper writing, research of	information on
CET 4882 Prerequisite:	Business Research Writing in Chinese CET 4881 Business Research Methodology in Chinese	3 Credits
Writing Chinese papers from a	ictual business research	
CGI 1201	Graphics Design Studio I	3 Credits
Fundamentals of idea develo	pment for creating the moving image, principles of storyboarding, chara ort story and scene development.	acter design and
CGI 2202	Introduction to Motion Picture and Animation	3 Credits
Fundamentals of video production techniques and overview of film and moving images. By combining theory and hands-on exercises, students are expected to develop the technical, analytical and critical foundations necessary in the video preproduction, production and postproduction process. Students may be required to produce a variety of short film projects.		
CGI 2203 Prerequisite:	Computer Graphics Design Studio II CGI 1201 Computer Graphics Design Studio I	1 Credits
Fundamentals of movement	in 2 dimension drawing, principles of animation in theory and applicat as cell animation, including required criticisms on the story and charact	
CGI 2204 Prerequisite:	Introduction to 3D Modeling ART 1208 Computer Graphics Foundation	3 Credits
Principles of 3-D space and mapping, lighting and rende	3 dimensional modeling techniques, such as object modeling, proced ring, construction of basic digital 3-D models of character and environm ss to analyze and criticize in terms of technique and aesthetics.	
CGI 2205 Prerequisite:	Motion Graphics Design ART 1208 Computer Graphics Foundation	3 Credits
Concepts related to motion	graphics using still images, live-action video, and three-dimensional co programs such as Adobe After Effects, Adobe Premiere, Adobe Photos	

Sound Design

3 Credits

Sound design principles as applied to motion pictures and interactive systems, phenomenology of sound with an introduction to acoustics, exploration of creative use of sound, introduction to field recording, use of digital audio workstations, use of original sound recordings from an extensive sound library.

CGI 2207 Animation Concept and Story Telling 3 Credits

Introduction to diversity of animation aesthetics from industrial processes to individual personal expression, historical contexts and methods as well as contemporary trends and techniques. oral and written critique supported by practical investigation into personal aesthetic choice, examination of a number of approaches for adaptation of story content to cinematic form, how to transpose ideas through 2-D storyboards and animatics to 3-D asset creation for pre-visualizing storyline.

CGI 2208	Computers Graphics Design Studio III	3 Credits
Prerequisite:	CGI 2203 Computer Graphics Design Studio II	

Techniques and concepts of animation such as stop motion, clay animation or claymation. Story development and short animation are required to fulfill these requirements.

CGI 3209	3D Animation	3 Credit
Prerequisite:	CGI 2204 Introduction to 3D Modeling	

3-D Animation with emphasis on weight, pose and mechanics of character movement, use of 2-D animation skills to thumbnail and creation of rough animations that help push their 3-D poses, basic principles of modeling and rigging as applied to a series of very different characters. Students explore basic tools and apply them to various anatomical problems to find modeling and rigging solutions for character motion.

CGI 3210	Computer Graphics Design Studio IV	3 Credits
Prerequisite:	CGI 2208 Computer Graphics Design Studio III	

Development of a uniqueness of story, sense of style and material as alternative for formulated classical animation or digital animation, employ imagery, objects and different media types to develop a method and use of media appropriate to the subject.

CGI 3211	Cinematic Lighting and Rendering	3 Credits
Prerequisite:	CGI 3209 3D Animation	

Lighting and rendering issues needed in the animation production work flow, technical and aesthetic overview of lighting for studio, presentation, cinema and visual effects, as well as tonal evaluation of images, color temperature and color theory, technical issues which include shadows, soft shadow control, light types, lighting setup and control, raytracing, mental ray.

CGI 3212	Computer Graphics Design Studio V	3 Credits
Prerequisite:	CGI 3210 Computer Graphics Design Studio IV	

Technical and aesthetic skill set of the advanced animation major. Through the exploration of projects, students continue to develop content delivery, story and technical mastery with emphasis on the process development throughout the finished animation. The technique of animation such as stop motion, claymation, cell-animation and 3D animation will be analyzed.

CGI 3213	Digital Image for Digital Production	3 Credits
Prerequisites:	CGI 2207 Animation Concept and Story Telling	
	CGI 2208 Computer Graphics Design Studio III	

Digital image principles as applied to digital production, exploration of creative use of images in the real production of animation, film and visual effects with emphasis on techniques of photo retouching.

CGI 3214	Movement Analysis and Integration	3 Credits
Prerequisites:	CGI 2207 Animation Concept and Story Telling	
	CGI 2208 Computer Graphics Design Studio III	

Character emotion and physical movement, realistic movements simply from a movement of a bouncing ball to a much more complicated walk cycle, professional choreography, how human body moves with the correct speed and gravity.

CGI 3215 Prerequisite:	Animation Production CGI 3209 3D Animation	3 Credits
Importance of scene layout	t and how it will affect the final production. Students will create sce line for final compositing. The work will start from concept, then sk ry.	
CGI 3216 Prerequisites:	Creative Process of Character Design and Setup CGI 2204 Introduction to 3D Modeling CGI 3209 3D Animation	3 Credits
Fundamentals of characte Students will design a cha veloped character that is i	r design such as, figure, anatomy, props, and costumes giving a rracter based on two-dimension sketches and drawings starting fr ready to be used in various fields such as games and animation. mension with full character setup and structure ready to animate.	om an idea to fully de-
CGI 3218 Prerequisites:	Cinematic Setup CGI 2207 Animation Concept and Story Telling CGI 2208 Computer Graphics Design Studio III	3 Credits
Art and science of pre-pro	duction and production from visualizing the narrative to lighting a e an outcome that is ready for post-production.	nd shooting production
CGI 3219 Prerequisites:	Principles of Digital Effects CGI 2207 Animation Concept and Story Telling CGI 2208 Computer Graphics Design Studio III	3 Credits
	compositing techniques from past to present.	
CGI 3220 Prerequisite:	Digital Compositing CGI 3219 Principles of Digital Effects	3 Credits
Students will learn to com Students will learn to use	pposite with digital photography based on the concepts of traditi digital SLR cameras, apply digital darkroom techniques, creativel ing of lighting and perspective with the use of compositing software.	
CGI 3221 Prerequisite:	Visual Effects I CGI 3219 Principles of Digital Effect	3 Credits
Techniques of compositing	g especially rotoscoping, chroma-keying, matte creation, how to so d render it with professional multi-pass rendering and time-based con	
CGI 4217 Prerequisite:	Digital Painting for Visual Effects CGI 3213 Digital Image for Digital Production	3 Credits
Development of a high-en production illustrations for	d concept art portfolio for film, animation and game industries. As film and game pitches, environment illustrations and quick color neir work to the style of their selection from realism to a more styl and portfolio critiques.	r keys for lighting refer-
CGI 4222 Prerequisite:	Visual Effects II CGI 3222 Visual Effects I	3 Credits
Relevant new techniques of	of visual effects industry including rendering, scripting, dynamic ef utilized in creating the most professional output.	fects, layout and project
CGI 4223 Prerequisite:	Art Thesis I CGI 3212 Computer Graphics Design Studio V	3 Credits
Students are required to ch to be approved by the Co	noose their own topics related to their field of study and develop a omputer Generated Imagery Thesis Committee. Students must co with all documents included.	

CGI 4224 Prerequisite: Computer Graphics Design Portfolio CGI 3212 Computer Graphics Design Studio V 3 Credits

6 Credits

2 Credits

Preparation of students for professional situations through the creation of individual demo reels, interactive portfolio, video on-line, cross-platform developments and issues concerning aesthetics, resumes, web sites and portfolios by emphasizing on business structure, studio hierarchy in both areas (animation studio and interactive studio), production bidding, media distribution, employee evaluation and professional growth, aspects of business in order for students to attain and sustain a professional career.

CGI 4225	Art Thesis II	
Prerequisite:	CGI 4223 Art Thesis I	

The class project continues from CGI 4223 Art Thesis I. In this class students will concentrate on their technical orientation related to their project's achievement. Technical and aesthetic skill set of the advanced skill will be discussed through the exploration of projects. Students continue to develop content delivery, story and technical mastery with emphasis on the identification and utilization of individual strengths in the context of a production environment. Students must finish their final project and organize their Art Thesis Exhibition in public.

CIS 1401	Keyboards Harmony I	2 Credits
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Basic and intermediate keyboard playing skills involving keyboard techniques, keyboard voicings, grand staff and lead sheets reading. Students will be introduced to triads, melody, comping, seventh chords families, harmonic continuity, chord voicings and melody with accompaniment. Training of students in using the keyboard as a tool to improve their musical creativity.

CIS 1402	Keyboards Harmony II	2 Credits
Prerequisite:	CIS 1401 Keyboard Harmony I	

Further development of CIS 1401-Keyboard Harmony I. Skills involving keyboard techniques, keyboard voicings, harmonic continuity, chord voicings, melody with accompaniment and also training of students in using the keyboard as a tool to improve their musical creativity.

CIS 1501 Instrumental Instruction I 2 Credits
Development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass,

Development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice

CIS 1502	Instrument Instruction II
Prerequisite:	CIS 1501 Instrument Instruction I

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.

CIS 2503	Instrument Instruction III	2 Credits
Prerequisite:	CIS 1502 Instrumental Instruction II	

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.

CIS 2504	Instrument Instruction IV	2 Credits
Prerequisite:	CIS 2503 Instrumental Instruction III	

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.

CIS 3505	Instrument Instruction V	2 Credits
Prerequisite:	CIS 2504 Instrumental Instruction IV	

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.
the previous course.

CIS 3506	Instrument Instruction VI	2 Credits
Prerequisite:	CIS 3505 Instrumental Instruction V	
Further development of perfe	ormance techniques and interpretation of fine art music.	Principal instrument: guitar,
bass, drums, piano, woodwin	d, brass or voice, based on student's selection of instrum	nent and improvement from

 CIS 4507
 Instrument Instruction VII
 2 Credits

 Prerequisite:
 CIS 3506 Instrumental Instruction VI
 2

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.

2 Credits

2 Credits

CIS 4508	Instrument Instruction VIII
Prerequisite:	CIS 4507 Instrumental Instruction VI

Further development of performance techniques and interpretation of fine art music. Principal instrument: guitar, bass, drums, piano, woodwind, brass or voice, based on student's selection of instrument and improvement from the previous course.

CMP 1201	Contemporary Arranging I	3 Credits
Prerequisite:	MU 1112 Theory of Western Music II	

Musical concepts of melody, rhythm, harmony, and form as applied to the principles and techniques of writing and arranging for the rhythm section (drums, bass, guitar, keyboards, basic percussion) and a lead-line for a solo instrument, two horns (Trumpet plus alto or tenor saxophone), or voice with focus on the conceptual process of combining individual components to create a musically satisfying arrangement.

CMP 1202	Contemporary Arranging II	3 Credits
Prerequisite:	CMP 1201 Contemporary Arranging I	

Properties of the trumpet, alto saxophone, tenor saxophone, trombone, and baritone saxophone, and the writing/ arranging processes of standard and spread voicings, approach techniques, melodic embellishment, and guide tone backgrounds with focus on application of processes to soli and background writing for two-, three-, four-, and five- part combinations of these instruments.

CMP 2601	Practicum in Music Technology	3 Credits
Prerequisite:	MU 1401 Computer for Musicians	

Development of skills and concepts necessary for the effective use of various music technology tools in sequencing and recording. Students will schedule weekly hands-on time in the MIDI lab.

CMP 2602	Song Demo Production	3 Credits
Prerequisite:	CMP 2601 Practicum in Music Technology	

Acquisition of technical, interpersonal and group skills needed in the development of professional quality song demos. Hands-on knowledge in professional music production (pre production, production and post production protocol).

CMP 3105	Traditional Harmony I
Prerequisite:	MU2114 Theory of Western Music IV

Harmonic principles and techniques of the Classical art music tradition (Common Practice Period): diatonic harmonic function, secondary dominants, modulation, mode mixture, Neapolitan chord, augmented sixth chords, enharmonic functions, altered dominants, common-tone diminished seventh chords, chromatic mediants, coloristic chord successions and tonal harmony of the late 19th century. Development of part-writing skills, harmonization and score analysis.

CMP 3106	Traditional Harmony II	2 Credits
Prerequisite:	CMP 3105 Traditional Harmony I	

Late Romantic and 20th century techniques: modes, artificial scales, free tertian and non-tertian harmony, polytonality, rhythmic methods, formal process, intervallic organization, serial procedures and an introduction to recent developments. Development of score analysis skills and analytical skills required for non-tonal music. CMP 3204 Arranging for Songwriting 2 Credits CMP 1202 Contemporary Arranging II Prerequisite: Writing effective arrangements around a lead vocal with various ensemble backing, including a contemporary rhythm section, background vocals, synthesizers, a small horn section, and a small string section including groove, style, introduction and fills, and use of various textures including background vocals, horns, strings, and solos. CMP 3303 Chord Scale Voicings for Arranging 2 Credits Prerequisite: CMP 1202 Contemporary Arranging II Five- and six-part writing for instruments. Application of voicings in seconds, thirds, and fourths. Upper-structure triads, clusters, and other non-mechanical voicings derived from chord scales. CMP 3601 2 Credits Songwriting Prerequisite: MU 2114 Theory of Western Music IV Fundamental songwriting techniques. Development of basic skill through the awareness of form, melody, harmony, bass line development, and rhythm. Lyric and vocal considerations. Students will complete projects in a variety of styles. CMP 3602 Advanced Songwriting 2 Credits Prerequisite: CMP 3601 Songwriting Integrations of Lyrics and melody. Continued exploration of songwriting techniques including modulation, modality, and formal devices. Extensive score analysis. CMP 3603 **Music Production for all Media** 3 Credits CMP 2602 Song Demo Production Prerequisite: Musical Instrument Digital Interface (MIDI) and its many applications, with an emphasis on sequencing. Synchronization to film, video, and other devices. Students will use computer-based workstations to complete a wide variety of musical projects. CMP 3604 **Jinale Writina** 2 Credits Prerequisite: CMP 2602 Song Demo Production Or CMP 3603 Music Production for all media Various aspects related to jingle writing – composition, product image, instrumentation, and timing. Vocal and Lyric Writing CMP 3611 2 Credits MU 2114 Theory of Western Music IV Prerequisite: Writing and production techniques for vocals - background vocals, a cappella, Gospel, range, timbre, vocal production, notation and recording and exploration of the structural aspects of Lyric writing, focusing on the use of rhythm, rhyme, and form. CMP 4109 2 Credits **Reharmonization Techniques** Prerequisite: MU 2114 Theory of Western Music IV Practical techniques of functional, extended, and bass line reharmonization. Incomplete chord structures and reharmonization of diminished chord. Application of these techniques for the writing of turnarounds, intros, interludes, and modulations. CMP 4110 2 Credits **Jazz Composition** Prerequisite: MU 2114 Theory of Western Music IV Systematic approach to the art of composing in the jazz idiom. Exploration of melodic, harmonic, and rhythmic principles. Standard jazz song form. Analysis of jazz standards. Arranging considerations applied as a means of enhancing a composition. Projects for small jazz group required. Counterpoint I CMP 4117 2 Credits Prerequisite: MU 2114 Theory of Western Music IV

CMP 4118 Prerequisite:	Counterpoint II CMP 4117 Counterpoint I	2 Credits
	ree and four part counterpoint – canon, invention, fugue, and chorale preluc	le.
CN 0400	Chinese for Beginners I	3 Credits
	unciation, Chinese Romanization-Pinyin and everyday conversation foc	using on basic
CN 0401 Perquisite:	Chinese for Beginners II CN 0400 Chinese for Beginners I	3 Credits
	ce patterns to develop the listening and speaking skills in daily life.	
CN 1400	Introduction to Chinese	3 Credits
	nunciation, writing of Chinese characters, fundamental Chinese gramma listening and speaking skills.	r and everyday
CN 1401 Prerequisite:	Chinese I CN 1400 Introduction to Chinese	3 Credits
	concerning with everyday life to broaden basic vocabularies and Chinese gra	mmar.
CN 1430	Listening and Speaking in Chinese I	1 credit
	aking simple sentences and daily-life conversations with emphasis on a	correct pronun-
CN 1431 Prerequisite:	Listening and Speaking in Chinese II CN 1430 Listening and Speaking in Chinese I	1 credit
	ing conversations in everyday situation focusing on fluency.	
CN 2401 Prerequisite:	Chinese II CN 1401 Chinese I	3 Credits
	he intermediate level to expand the number of vocabularies and know	ledge of gram-
CN 2402 Prerequisite:	Chinese III CN 2401 Chinese II	3 Credits
	nguage skills focusing on grammatical points and oral expressions, and	d reading texts
CN 2431 Prerequisite:	Chinese Oral Comprehension and Expression I CN 1431 Listening and Speaking in Chinese II	2 credits
Listening to topics related to general interests and oral practice of summary on the selected topics.		
CN 2432	Chinese Oral Comprehension and Expression II	2 credits
Prerequisite: CN 2431 Chinese Listening to conversations a	Oral Comprehension and Expression I nd texts related to Chinese culture and current situations and practice lected topics and actual experience.	of recounting
CN 3403 Prerequisite:	Chinese IV CN 2402 Chinese III	3 credits
Pooding of academic toxts in		o u vocabularu

Reading of academic texts, practice of writing a short paragraph, and introduction to literary Chinese : vocabulary, expressions, sentence structures, and idiomatic usage.

CN 3410 Prerequisite:	Business Communication in Chinese CN 2402 Chinese III	3 credits
	s in business writing, various forms of business correspondences, reduct descriptions.	esumes, agenda,
CN 3434 Prerequisite:	Chinese Conversation and Discussion I CN 2432 Chinese Oral Comprehension and Expression II	3 credits
	ppics related to academic and career purposes with emphasis on discussion	skills.
CN 3435 Prerequisite:	Chinese Conversation and Discussion II CN 3430 Chinese Conversation and Discussion I	3 credits
	usiness topics and development of fluency and accuracy in discussion.	
CN 3433 Prerequisite:	Chinese from Audio-Visual Media CN 3430 Chinese Conversation and Discussion I	3 credits
	om audio-visual aids, and practice of recounting, analytical and discussion s	skills.
CN 3441 Prerequisite:	Chinese Reading and Oral Report CN 2402 Chinese III	3 credits
	s of texts related to current political, social, economic situations and program goral reports.	actice of gather-
CN 3450 Prerequisite:	Introduction to Chinese Writing CN 2402 Chinese III	3 credits
Practice of writing correct se	entences, notes, diaries, summaries and essays with emphasis on usin ssions in the appropriate formats.	g the right Chi-
CN 3463 Prerequisite:	Introduction to Chinese Culture CN 3403 Chinese IV	3 credits
Development of Chinese cul	ture from the Xia dynasty to the modern era focusing on significant l pplishments in the science, arts and literature and specific features of C	
CN 3470 Prerequisite:	Translation I: Chinese-Thai CN 2402 Chinese III	3 credits
	translation from Chinese to Thai and practice of translation of senten	ces, paragraphs,
CN 3480 Prerequisite:	Chinese for Secretaries CN 2402 Chinese III	3 credits
Knowledge of secretarial dut	ies in Chinese, practice of spoken and written Chinese in secretarial co work schedules, memoranda, agenda and minutes.	ntexts, and writ-
CN 3481 Prerequisite:	Chinese for Tourism CN 2402 Chinese III	3 credits
General knowledge and Chin	nese terminology in tourism industry, description of Thailand's tourist at es of tour guides and practice of Chinese oral communication as a tour guid	
CN 3482 Prerequisite:	Chinese for Hotels CN 2402 Chinese III	3 credits
General knowledge and Chir	nese terminology in hotel industry, duties and responsibilities of person e communication in hotel industry context.	nnel in hotel in-

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CN 3483 Prerequisite:	Chinese for Service Industries CN 2402 Chinese III	3 credits
	nd conversations used in service industries: airlines, hospitals, resta	aurants, banks, and
CN 4433 Prerequisite:	Public Speaking in Chinese CN 3432 Chinese Conversation and Discussion II	3 credits
Basic principles and practi	ce of public speaking for persuasive purposes, selection and evaluat on, voice and non-verbal communicative means.	ion of materials for
CN 4434 Prerequisite:	Advanced Listening and Speaking in Chinese I CN 3432 Chinese Conversation and Discussion II	3 credits
	and texts for business purposes and oral practice of presenting the in d systematically.	formation, idea and
CN 4435 Prerequisite:	Advanced Listening and Speaking in Chinese II CN 4434 Advanced Listening and Speaking in Chinese I	3 credits
	nced level and practice of analyzing and criticizing the selected tex	ts and making oral
CN 4440 Prerequisite:	Reading in Business Chinese CN 3403 Chinese IV	3 credits
	ficiency in business-related materials, writing summaries and reviews.	
CN 4442 Prerequisite:	Reading in Chinese Newspapers CN 3403 Chinese IV	3 credits
	various newspaper articles and understanding of expressions and s	styles used in news
CN 4460 Prerequisite:	Survey of Chinese Literature CN 3403 Chinese IV	3 credits
	ninese literature from the beginning to the present day, and reading	selections in prose,
CN 4471 Prerequisite:	Translation II: Thai-Chinese CN 3470 Translation I: Chinese-Thai	3 credits
	of translation from Thai to Chinese and practice of translation of ser	ntences, paragraphs,
CN 4491 Prerequisite:	Seminar on Selected Topics Consent of Instructor	3 credits
Discussion of selected topic	s in using Chinese or business Chinese and current issues of interest.	
CPS 1101	Jazz Improvisation I	2 Credits
Basic concepts of improvisation: techniques, scales, and analysis of classic solos in a variety of idioms, including but not limited to Blues, Rock, Country, and Ethnic traditions, assimilation of these influences into what is commonly called "Jazz Improvisation". Students will complete 6 projects per semester, using computer and/or live performances in class.		
CPS 1102 Prerequisite:	Jazz Improvisation II CMS 1101 Jazz Improvisation I	2 Credits
	provising skills. Continuation of computer and/or live performances in clas	S.

CPS 2101 Prerequisite:	Jazz Improvisation III CMS 1102 Jazz Improvisation II	2 Credits
	rovising skill. Continuation of computer and/or live performances in cl lazz improve techniques.	ass with primary
CPS 3401 Prerequisite:	Performance Ear Training I MU 0102 Ear Training II	2 Credits
Recognizing pitch, rhythm,	harmony, and timbre by ear with emphasis on practical performance trument in class, dictation, sight singing, transcription, and memorization p	
CPS 3402 Prerequisite:	Performance Ear Training II CPS 3401 Performance Ear Training I	2 Credits
Continuation of Performance with emphasis on practical p	Ear Training I. Development of recognizing pitch, rhythm, harmony, ar performance experience and utilization of the student's instrument in c on, and memorization projects.	
CPS 4401 Prerequisite:	Jazz Recital CIS 4507 Instrumental Instruction VII	2 Credits
	erformance in public and at the recital workshop for performance majors.	
DA 1121	Basic Mathematics and Statistics	3 Credits
Basic foundation in mathem	atics and statistics such as algebra, trigonometry, collection of data, su umerical, and elementary of probability.	ummarizing data
DA 2101 Prerequisite:	Calculus I DA 1121 Basic Mathematics and Statistics	3 Credits
Rate of change, limits, findir	ig limits and continuity, derivatives of function, chain rule, techniques rule. Integration, integration techniques and application of integrals.	of differentiation
DA 2102 Prerequisite:	Calculus II DA 2101 Calculus I	3 Credits
Transcendental function and	differential equations for the first order and the second order, integraries, multivariable functions and their derivatives, and multiple integrals.	tion techniques,
DA 2103 Prerequisite:	Principles of Statistics DA 1121 Basic Mathematics and Statistics	3 Credits
Introduction of statistical me ance, introduction to probab	thods such as collection of data, tabulation, statistical computation of a solity, sampling distribution, statistical estimation and test of hypotheses alysis of Variance (ANOVA), and Chi-square test.	
DA 2201 Prerequisite:	Linear Algebra DA 2101 Calculus I	3 Credits
Systems of linear equations,	matrix and determinants, vector in the plane and vector spaces, pola Eigen values and diagonalization, quadratic forms, linear transformations.	coordinate and
DA 2203 Prerequisite:	Probability and Statistical Methods DA 2103 Principles of Statistics	3 Credits
Quantitative methods such	as correlation analysis, linear regression, introduction to time series s, quality control and decision making.	orecasting, non-
DA 2204 Prerequisite:	Statistical Packages DA 2103 Principles of Statistics	3 Credits
	vare packages, design of statistical software, choosing the statistical too nd summarizing of data.	ls in data analy-

DA 2204	Statistical Packages	3 Credits
Prerequisite:	DA 2103 Principles of Statistics	

Structures and uses of software packages, design of statistical software, choosing the statistical tools in data analysis, computation techniques and summarizing of data.

DA 3201	Statistical Inferences and Theory of Probability	3 Credits
Prerequisite:	DA 2203 Probability and Statistical Methods	

Probability theory, conditional probability and independence, discrete and continuous distribution functions, joint distributions, expectations and variances of random variables, central limit theorems, inferential statistics, point estimation theories such as maximum likelihood, Bayes' estimator, unbiased and minimum variance estimator, interval estimations, and testing of hypotheses.

DA 3202	Databases System and Data Warehouse Concepts	3 Credits

Basic concepts and elements of file and database systems and data-warehouse, database management systems and emerging database technologies and applications of database and information management systems.

DA 3203	Nonparametric Methods	3 Credits

Non-parametric statistical test in the case of one sample, two dependent samples, two independent samples, k related samples, k independent samples, and measures of association.

DA 3301	Principles of Data Collection Methods	3 Credits
Prerequisite:	DA 2103 Principles of Statistics	

Characteristics of collecting data from survey and experimental designs, probability sampling methods and nonprobability sampling methods, how to design an experimental study including statistical analysis of the data, and proper interpretation.

DA 3302	Qualitative Research for Business and Application	3 Credits
	ing and conducting qualitative research methods in business th survey, ethnography, content analysis, and laddering analysis.	research including case
DA 2202		

DA 3303	Quantitative Research for Business and Application	3 Credits
Prerequisite:	DA 2103 Principles of Statistics	

Characteristics of designing and conducting quantitative research methods in business research including of defining research problems, questionnaire design, data gathering techniques, sampling designs and fieldwork, statistical methods for analyzing data and report presentation.

DA 3304	Intelligence Systems	3 Credits
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Techniques and basic principles of artificial intelligence, the basic knowledge-based expert systems, tools for artificial intelligence development, the application of artificial intelligence in industries, product design, planning, finance, analysis, insurance, medication, engineering and other appropriate business. Each type of application will emphasize on information system and techniques used for particular type of business.

DA 3305	Data Mining Methods	3 Credits

Introduction and terminologies of Data Mining, techniques for exploring to meaningful rules in the large quantities of data such as Association (Apiori, FP-Growth), Classification and Cluster (SOM, K-Mean, Hierachical).

DA 3306	Statistical Forecasting T	echniques I	3 Credits
Industrial and business forec			 multiple linear regression

analysis; time series analysis with decomposition methods, smoothing methods, the Box-Jenkins methodology for stationary data, and the application of forecasting techniques to industrial and business problems.

DA 3401 Multivariate Methods 3 Credits

Multivariate techniques such as discriminant analysis, principal component analysis, factor analysis, multidimensional scaling, graphical exploration and representation of multivariate data, analysis of multivariate categorical data, MANOVA and uses of multivariate statistical computer packages.

DA 4299 Prerequisite:	Senior Project The fourth-year student status with at least 100 Credits completed	3 Credits	
Specific project which requires students to apply the knowledge acquired to application of statistics in business, industry or science. The instructor will advise students throughout the project development. The students will have an oral examination on their project.			
DA 4301 Prerequisite:	Operations Research I DA 2103 Principles of Statistics	3 Credits	
	oortation problem, assignment problem, PERT/CPM techniques, inv	entory, decision	
DA 4302 Prerequisite:	Operations Research II DA 4301 Operations Research I	3 Credits	
	, dynamic programming and non-linear programming.		
DA 4303	Counselor Workshop	3 Credits	
Client-consultant relationship	, consulting sessions, communication skills, professional ethics, team Is, searching the literature for relevant background material, case stud ritical assessment.		
DA 4304	Customer Relationship Management and E-Business	3 Credits	
Aspects of CRM, including d channels transformation, cust	leveloping a market-oriented strategy, innovation in products and se tomer relationship marketing and customer care, how CRM links peop erprise's revenue and profits and provide maximum customer satisfaction.		
DA 4310 Prerequisite:	Statistical Forecasting Techniques II DA 3306 Statistical Forecasting Techniques I	3 Credits	
Non-linear multiple regression series analysis with the Box	n and its problems such as multicollinearity problem, autocorrelation pr Jenkins methodology for nonstationary data and its problems such as of forecasting techniques to industrial and business problems.		
DA 4311	Statistics for Quality Control DA 2103 Principles of Statistics	3 Credits	
	Id control chart for attributes such as chart, R chart, S chart, p chart,	and acceptance	
DA 4319 Prerequisite:	Introduction to Simulation DA 2103 Principles of Statistics	3 Credits	
Design and application of simulation for business or science by methods of queuing, models, Monte Carlo, stochas- tic process with application software package such as GPSS.			
DA 4321	Applied Statistics for Decision Making	3 Credits	
Decision making under certainty and uncertainty, utility theory, group decisions, Mini-max method, Bayes' method.			
DA 4380 Prerequisite:	Selected Topics in Business Data Analysis The fourth-year student sand by the instructor's consent	3 Credits	
Special topics that the department and instructors think appropriate for students for detailed study and research in business data analysis.			
DA 4390 Prerequisite:	Seminar in Business Data Analysis The fourth-year students and by the instructor's consent	3 Credits	

Current applications of statistics in business data analysis. Experts in specialized areas from government or private sectors may be invited to give lectures on specialized topics. Each student will be required to present a paper for discussion.

DA 4390 Prerequisite:	Seminar in Business Data Analysis The fourth-year students and by the instructor's consent	3 Credits
Current applications of stat	istics in business data analysis. Experts in specialized areas from g give lectures on specialized topics. Each student will be required to	
ECO 1401	Economic Reasoning	3 Credits
Economic way of thinking	to examine development of economics, structure and framework oncepts in economic research analysis, concept of marginal analy sis.	
ECO 2501 Prerequisite:	Principles of Microeconomics ECO 1401 Economic Reasoning	3 Credits
Allocation of scare resource	es in market economies, theory of consumption and production, de st, roles of firms, market mechanisms to determine prices and e	
ECO 2502 Prerequisite:	Principles of Macroeconomics ECO 1401 Economic Reasoning	3 Credits
Principles of national incom	ne, macro-economic issues: unemployment, inflation, economic gro is, savings and investment, exchange rate and balance of payment influencing the economy.	
ECO 2503 Prerequisite:	Economy, Society and Government ECO 1401 Economic Reasoning	3 Credits
Interrelation between econ	omy, society and government, influence of the government polici s on both society and economy	es, and the range of
ECO 3711 Prerequisite:	Intermediate Microeconomics ECO 2501 Principles of Microeconomics	3 Credits
Theory of consumer choice	e: analysis of consumer preference and utility maximization, theor minimization and factor demands, market structure: price detern m and welfare economics.	
ECO 3712 Prerequisite:	Intermediate Macroeconomics ECO 2502 Principles of Macroeconomics	3 Credits
general economic stability,	c models, relationship between aggregate demand and aggregate s growth, and employment, theory of income determination, growtl ed and open economy , and implications of different theories for macr	n theory, government
ECO 3713 Prerequisites:	Economics of Money and Banking ECO 2501 Principles of Microeconomics ECO 2502 Principles of Macroeconomics	3 Credits
Money and capital markets,	role of bank and non-bank financial institutions, theories of money, conduct of monetary policy in stabilizing the economy, and basic for IS-	
ECO 3714 Prerequisite:	Mathematical Economics BG 1230 Calculus	3 Credits
Mathematical techniques: d problems in economics, pa	lerivatives, differential equations, linear programming, matrix, and or rticular applications including solving system of equation supply inal analysis, optimization problems.	

Theories and policies of international trade, neoclassical trade theory to modern trade theory, absolute advantage versus comparative advantage, H-O Model, Standard Trade Model, Inter- and Intra- Industry Trade, instruments of trade policies, trade policies and strategies in both developing countries and advanced countries, and economic integration.

ECO 3717	Intermediate Microeconomics	3 Credits
Prerequisite:	ECO 2501 Principles of Microeconomics	
and	ECO 2502 Principles of Macroeconomics	

Application of economic tools to the analysis of management decisions with emphasis on demand analysis and forecasting, production and cost analysis, market structure and competitive analysis, game theory and competitive strategy, decision making under uncertainty, organization design.

ECO 3721	Industrial Organization	3 Credits
Prerequisite:	ECO 2501 Principles of Microeconomics	

Analysis of firm behavior in imperfectly competitive market, relationship between industrial structure and performance of firms, impacts of technological change on costs, profitability and industrial structure, pricing strategy in different market structures, strategy of firms to create market power.

ECO 3722	Business Cycles and Forecasting	3 Credits
Prerequisite:	ECO 2502 Principles of Macroeconomics	

Macroeconomic analysis of business cycle fluctuation, theories of business cycles, measurement of business cycles, and use of econometric and statistical techniques relevant to forecasting in a business environment.

ECO 3723	Public Finance	3 Credits
Prerequisites:	ECO 2501 Principles of Microeconomics	
	ECO 2502 Principles of Macroeconomics	

Economic role of government with emphasis on public expenditure and taxation, budgetary policy and impacts of government policy on the economy, theory of taxation.

ECO 3724	Comparative Economic Systems	3 Credits
Prerequisites:	ECO 2501 Principles of Microeconomics	
	ECO 2502 Principles of Macroeconomics	

Comparisons between the major economic systems in the world: capitalism, socialism and economies of less- and developing countries, operation of modern market economy, variants of capitalism, transformation of socialism into market economy, the Asian economy.

ECO 3725	Financial Economics	3 Credits
Prerequisite:	ECO 3713 Economics of Money and Banking	

Applications of economic principles in the development of modern finance theory, theoretical models used finance, competitive market model, capital asset- pricing model, arbitrage and option pricing, models of firm, theory of financial structure of firm.

ECO 4711	International Macroeconomics	3 Credits
Prerequisite:	ECO 3712 Intermediate Macroeconomics	

International monetary theory, macroeconomics in open economy, balance of payments, foreign exchange market, exchange rate systems, theories of exchange rate determination, international financial markets and instruments, international macroeconomic policies.

ECO 4712	Economics of Strategy	3 Credits
Prerequisites:	ECO 3711 Intermediate Microeconomics	
or	ECO 3717 Managerial Economics	

Strategy from the perspective of economics, economies of scale and scope as sources of competitive advantage, analysis of vertical and horizontal integration, analysis of firm boundaries and diversification, industry and competitive analysis and competitive approaches, analysis of strategic positioning for competitive advantage, and sustaining competitive advantage strategies.

Economics of Strategy ECO 3711 Intermediate Microeconomics ECO 3717 Managerial Economics

Strategy from the perspective of economics, economies of scale and scope as sources of competitive advantage, analysis of vertical and horizontal integration, analysis of firm boundaries and diversification, industry and competitive analysis and competitive approaches, analysis of strategic positioning for competitive advantage, and sustaining competitive advantage strategies.

3 Credits

ECO 4721	Project Evaluation	3 Credits
Prerequisites:	ECO 2501 Principles of Microeconomics	
	FIN 3701 Corporate Finance	

Feasibility study of investment project, application of economic and finance techniques to both discounted and nondiscounted cash flow such as internal rate of return, net present value, pay-back period, cost-benefit analysis to evaluate the economic viability of business investment projects.

ECO 4722	Economics of Human Resources	3 Credits
Prerequisite:	ECO 2501 Principles of Microeconomics	

Economic analysis of human resources management, traditional model of labor demand and labor supply, marginal productivity theory, theory of wage differentials and structure of earnings, human resources development and planning, provision of training and skills, human capital theory, labor relation and theory of bargaining.

ECO 4723	Agricultural Economics and Agri-business	3 Credits
Prerequisite:	ECO 2501 Principles of Microeconomics	

Economic theory of agricultural sector, nature of supply, demand and production in agricultural products, market and price risks, market and industry structures, role of the financial market and future exchange in agricultural products, competitive strategy in the world market, and government intervention in agricultural sector.

ECO 4724	Economics of E-business	3 Credits
Prerequisites:	BIS 2280 Information Technology	
	ECO 2501 Principles of Microeconomics	

Economic analysis of electronic business, linkage of e-business to economics, analysis of impacts of e-commerce on cost of goods and services, relationship between business and information technology, economic aspects of e-commerce, e-business, and e-government.

ECO 4725	Economics of Sustainability	3 Credits
Prerequisite:	ECO 2501 Principles of Microeconomics	
and	ECO 2502 Principles of Macroeconomics	

Theoretical and empirical studies of the economic effects of national or local environmental policies around the world, costs and benefits of alternative environmental policies to deal with air pollution, water quality, toxic substances, solid waste, and global warming, pattern of resource use to meet human needs while preserving the environment.

ECO 4726	Business and Government	3 Credits
Prerequisites:	ECO 2501 Principles of Microeconomics	
	ECO 2502 Principles of Macroeconomics	

Linkage between business sectors and government, impact of government policies (fiscal, monetary, trade and industrial policies) on business sectors, analysis and evaluation of impact and remedies, national income, business cycles, money supply, inflation, interest rates and financial assets.

Seminar in Economics	3 Credits
ECO 3711 Intermediate Microeconomics	
ECO 3712 Intermediate Macroeconomics,	
MGT 3940 Business Research Methodology	
	ECO 3711 Intermediate Microeconomics ECO 3712 Intermediate Macroeconomics,

Development of student's economic research, review of past economic research, economic research topic development, literature review, methodology, interpretation of economic results and evaluation of economic research results.

Laboratory works to be done according to EE 2201 Electric Circuits.

EE 2203	Signals and Systems
Prerequisite:	BG 2207 Engineering Mathematics
	EE 2201 Electric Circuits

Continuous-time and discrete-time signal and system; linear time-invariant system (LTI); signal analysis using Fourier transform, Laplace transform, and Z-transform; applications of signal and system; modern techniques in signal and system analysis.

3 Credits

EE 2401	Electromechanical Energy Conversion	3 credits
Prerequisite:	EE 2201 Electric Circuits	

Principles of magnetic circuits, definition and interpretation of parameters, calculation of simple and complex magnetic circuits, principles of DC generator, induced electromotive force, armature winding, excitation, armature reaction, commutation, characteristics of DC generators, principles of DC motors and their characteristics, start and speed control of DC motors, principles of transformers, phasor diagram of transformer testings, transformer heat exchanger and ventilation, transformer banking in three phases system, auto transformer.

EE 2402 Co-requisite:	Electromechanical Energy Conversion Laboratory EE 2401 Electromechanical Energy Conversion	1 credit
Laboratory works to be done	according to EE-2401 Electromechanical Energy Conversion.	
EE 2605 Prerequisite:	Engineering Electronics BG 1213 Physics II	3 credits
	ice current-voltage and frequency characteristics; analysis and design of MOS transistor circuits; operational amplifier and its applications.	diode circuits;
EE 2606 Co-requisite:	Engineering Electronics Laboratory EE 2605 Engineering Electronics	1 credit
Laboratory works to be done	according to EE 2605 Engineering Electronics.	
EE 3301 Prerequisite:	Electromagnetic Fields BG 1205 Calculus II BG 1213 Physics II	3 credits

Electrostatic fields; conductors and dielectrics; capacitance; convection and conduction currents; magnetostatic fields; time-varying electromagnetic fields; Maxwell's equations.

EE 3402	Electrical Machines	3 Credits
Prerequisite:	EE 2401 Electromechanical Energy Conversion	

AC armature windings, revolving fields in multi-phase systems, structure of induction motors, principles of induction motors, equivalent circuits and circle diagram, starting methods and speed control, principles and characteristics of single-phase induction motors, AC generators, structure, excitation, AC generation voltage control, parallel operation of generators, synchronous motors; equivalent circuit and phasor diagram, motor characteristics at various excitations, power factor correction using synchronous motors.

EE 3403	Electrical Machines Laboratory	1 Credit
Prerequisite or Corequisite:	EE 3402 Electrical Machines	

Laboratory works to be done according to EE 3402 Electrical Machines.

EE 3403 Prerequisite or Corequisite:	Electrical Machines Laboratory EE 3402 Electrical Machines	1 Credit
	according to EE 3402 Electrical Machines.	
EE 3405 Prerequisite: or	Digital Control Systems EE 3404 Feedback Control Systems EE 3406 Control Systems	3 Credits
Z-transform, Pulse transfer f	unction, Discrete equivalent to the continuous time systems, State-sp olem with discretization and numerical round-off	ace models and
EE 3406 Prerequisite:	Control Systems EE 2203 Signals and systems	3 credits
Mathematical models of sys	tems, closed-loop and open-loop control system, transfer function, sig domain analysis and design of control system; root locus, Nyquist p	
EE 3601 Prerequisite: or	Electronic Circuit Design EE 2603 Electronics Circuits Analysis EE 2605 Engineering Electronics	3 credits
Components of design proce ply design, voltage regulator	ess of electronic circuits, multiple-input operational amplifiers circuit de r circuit design, wave shaping circuit design, Bipolar Junction Transisto r (FET) amplifier design, power amplifier design, digital logic families a	or)BJT) amplifier
EE 3602 Prerequisite or Co-requisite:	Electronic Circuit Design Laboratory EE 3601 Electronic Circuit Design	1 credit
	according to EE 3601 Engineering Electronic Circuit Design	
EE 3606 Prerequisite: and or	Electrical Instruments and Measurements EE 2201 Electric Circuits EE 2601 Electronic Devices and Circuits EE 2605 Engineering Electronics	3 credits
Units and standard of elec sis; measurement of dc and	trical measurement; instrument classification and characteristics; mea ac current and voltage using analog and digital instruments; power, p neasurement of resistance, inductance, and capacitance; frequency ar transducers.	ower factor, and
EE 3703 Prerequisite:	Microprocessor CE 2704 Digital Logic Design	3 credits
	troller: architecture, hardware, software, and interfacing.	
EE 3704 Prerequisite:	Embedded Systems EE 3703 Microprocessor	3 credits
	istruction sets of microcontrollers and DSP processors, interfacing tec s, external memory, peripherals, timers, DAC and ADC, sampling and icquisition.	
EE 4201 Prerequisite:	Network Theory EE 2201 Electric Circuits	3 Credits
	uits; non-time-varying linear circuit, steady-state analysis for sinusoid	al signals, graph

network theory, mesh and node analysis, state equation, natural frequency, network function, four terminal network, positive-real function, driving point synthesis with R-R, R-C-L, one-port and two-port synthesis, Foster and Maclaurin network synthesis.

EE 4301 Prerequisite:	Introduction to Electromagnetic Compatibility EE 3301 Electromagnetic Fields	3 Credits
Concepts of Electromagneti	c Interferences (EMI) and EMC definitions, sources of EMI and thei d control, EMC standards, EMC testing techniques.	r characteristics, EMI
EE4305 Prerequisite:	Digital Signal Processing EE 2203 Signals and Systems	3 credits
Basic concepts of digital si transform, digital signal filt	gnal processing, fourier transform revision, discrete-time fourier tr ering, analog-digital conversion, sampling process, digital-analog on nstruction of FIR and IIR, digital filter, effect of word length, response	conversion, optimum
EE 4401 Prerequisite:	Electric Drive EE 3402 Electrical Machines	3 Credits
Development of electric dri starting and braking, calcula	ives, moment of electric drives, types of duties, electric braking, er ation of motions of electric machines using analytical and graphical r t tracking machines, electric circuits and controls of traction mach of electric motors.	methods, calculations
EE 4402 Prerequisite:	Analysis and Design of Electrical Machines EE 3402 Electrical Machines	3 Credits
Electrical transient in synch overload and short-circuit p	ronous and induction machines, repulsion motors, universal moto protection of machines, introduction to generalized machines theor lesign of some conventional electrical machines.	
EE 4403 Prerequisite: or and	Basic Mechatronics ME 2210 Engineering Mechanics ME 2211 Engineering Mechanics I EE 2401 Electromechanical Energy Conversion	3 credits
	s with emphasis on industrial robots used automated manufacturing	. design, control, and
EE 4501 Prerequisite:	Power System Analysis EE 3402 Electrical Machines	3 Credits
Transmission and distribution	n networks calculation; load flow; load flow control; symmetrical s nalysis; power system stability; economic operation.	short circuit analysis;
EE 4503 Prerequisite:	Electrical Systems Design EE 2401 Electromechanical Energy Conversion	3 credits
electrical drawing, load est	er distribution schemes, codes and standards for electrical installat imation, wiring design, grounding, short-circuit calculation, coordi ement, emergency power systems.	
EE 4504 Prerequisite:	Illumination Engineering EE 2201 Electric Circuits	3 Credits
Physical radiant and photon	metric quantities, measurements of light, radiation from incandesce orescence, lamps and lighting fitting, light properties of construction ions.	
EE 4505 Prerequisite:	Power System Protection EE 4501 Power System Analysis	3 Credits

Fundamental of protection practices, instrument transformer and transducers, protection devices and protection systems, overcurrent and earth fault protection; differential protection, transmission line protection by distance relaying, transmission line protection by pilot relaying, motor protection, transformer protection, generator protection; bus zone protection.

Power Plant Engineering EE 3402 Electrical Machines

Electrical energy demand-prediction of load-load duration curve-load factor diversity factor. Conventional sources of energy generation: thermal power station- steam turbines and turbo generators-excitation control, auxiliaries and instrumentation; hydropower plants-types of hydraulic turbines and salient pole hydro generators and controls. Principles of operation of nuclear power plants-precautions, gas turbine power plants-captive power plants using diesel engines. Parallel operation and load sharing. Power station switch yard equipment- step up transformers, reactors, CBs, protection. Economic operation and method of loading. Non conventional energy sources and power generation: solar, wind, geothermal and MHD and future trends.

3 Credits

EE 4508	Power Plant and Substations	3 Credits
Prerequisite:	EE 3402 Electrical Machines	

Load curve, diesel power plant, steam power plant; gas turbine power plant, combined cycle power plant, hydro power plant, nuclear power plant, renewable energy sources, type of substation, substation equipment, substation layout, lightning protection, grounding system.

EE 4600	IC Technology	3 Credits
Prerequisite:	EE 2603 Electronics Circuits Analysis	

Crystal growth and sample preparation, magnetic cleaning, epitaxial processes, oxidation, diffusion, ion implantation, CVD, metallization, sputtering, lithography, etching, assembly, packaging, IC devices and components such as resistance, capacitors, diode etc., MOSIC, bipolar transistor IC.

EE 4602	Industrial Instrumentation and Control	3 credits
Prerequisite:	EE 3404 Feedback Control Systems	
or	EE 3406 Control Systems	

Analog and digital equipment and measuring instruments, various types of transducers, data processing and displays, techniques of system control in industry in order to be able to do some analysis, design, equipment selection and maintenance for the control system in industry.

EE 4603	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	
or	EE 2605 Engineering Electronics	

Solid-state devices in industry; sensors, light detector, time etc. and their applications, multiphase solid-state rectifier, voltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4606	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	

Solid-state devices in industry; sensors, light detector, time etc. and their applications, multiphase solid-state rectifier, voltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4606	Industrial Electronics	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	

Solid-state devices in industry; sensors, light detector, time etc. and their applications, multiphase solid-state rectifier, voltage control, magnetic amplifier, integrated circuits, digital circuits, sequential control, digital control.

EE 4701	Microprocessor Interface Techniques	3 Credits
Prerequisite:	EE 3703 Microprocessor	

Revision of 8-bit, 12-bit, 16-bit microprocessors, hardware, using programming in instruction sets. Emphasis will be placed on techniques of interfacing microprocessor to computer systems: (ISA, Serial communication port, Parallel communication port, PCI, SCSI, IDE, A/D & D/A converters). Project work piece and report are required to complete the course requirements.

EE 4705	Power Electronics	3 Credits
Prerequisite:	EE 2603 Electronic Circuit Analysis	
or	EE 2605 Engineering Electronics	
and	EE 3402 Electrical Machines	

Characteristics of power electronics devices, power diode, thyristors, power bipolar; MOSFET, IGBT, characteristics of magnetic material, power transformer core, ferrite core, iron powder core, converters, ac to dc converter, dc to dc converter, ac to ac converter, dc to ac converter.

EE 4706 Prerequisite or Co-requisite:		1 Credit	
Experiments to be done according to EE 4705 Power Electronics			
EE 4901 Prerequisite:	Electrical and Electronic Engineering Project l Completion of 100 Credits	1 Credit	
	project in electrical and electronics engineering. Students must submit	a report at the	
EE 4902 Prerequisite:	Electrical and Electronic Engineering Project II EE 4901 Electrical and Electronic Engineering Project I	2 Credits	
	e in electrical and electronic engineering Project I. Report is also require	d at the end of	
EE 4903 Prerequisite:	Advanced Topics in Electrical and/or Electronic Engineering Completion of 90 Credits with the consent of the Chairperson	3 Credits	
	new developments on Electrical and/or Electronics Engineering.		
EE 4904 Prerequisite:	Special Problems in Electrical and/or Electronic Engineering Completion of 90 Credits with the consents of the Chairperson	3 Credits	
	lems assigned by the instructor with the consent of the Faculty: a writ	ten report is re-	
EN 2230 Prerequisite:	Listening and Speaking BG 2000 English III	3 Credits	
	ning and speaking within the contexts of daily usage, academic and busine	SS.	
EN 3210 Prerequisit <mark>e</mark> :	Business Communication in English I BG 2000 English III	3 Credits	
English for business communication in various forms, technical terms, appropriate formats to ensure clear and ef- ficient communication.			
EN 3211 Prerequisite:	Business Communication in English II EN 3210 Business Communication in English I	3 Credits	
Overview of organizational communication, both internal and external, its scope and importance in business, writing for effective business communication using various forms of media, significance and basic principles of Corporate Social Responsibility (CSR)			
EN 3232 Prerequisite:	English Pronunciation I BG 2000 English III	3 Credits	
Correct American English pronunciation with emphasis on individual sounds, sounds in words, phrases, and sen- tences for speech intelligibility in academic, social and professional settings			
EN 3233 Prerequisite:	English Pronunciation II BG 2000 English III	3 Credits	
Correct American English pronunciation with emphasis on practicing stress, rhythm and intonation, practice for speech intelligibility in academic, social and professional settings			
EN 3240 Prerequisite:	Reading in Business English BG 2000 English III	3 Credits	
Comprehension capacity and	d speed in reading on current issues related to business, interpretation xts outlines and short synopses of selected material as well as discussion		

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EN 3270 Prerequisite:	Translation: English-Thai BG 2000 English III	3 Credits	
Purposes, methods and techniques of translation from English into Thai, development of skills in analyzing sentence patterns of the English language, the use of words, idioms and structure for accuracy in meaning and style of original document			
EN 3271 Prerequisite:	Translation: Thai-English BG 2001 English IV	3 Credits	
Purposes, methods and tech	niques of translation from Thai into English, development of skills in an je, the use of words, idioms and structure for accuracy in meaning and		
EN 3281 Prerequisite:	English for Tourism BG 2000 English III	3 Credits	
	and efficient communication in all aspects of travel and tourism		
EN 3282 Prerequisite:	English for Hotels BG 2000 English III	3 Credits	
	notel administration, reception, services and business contacts		
EN 3283 Prerequisite:	English for International Trade BG 2000 English III	3 Credits	
	and general concepts of import/export and international business		
EN 3284 Prerequisite:	English for Property Development BG 2000 English III	3 Credits	
	minology used in property development and property business manag perty development	ement, theoreti-	
EN 3287 Prerequisite:	English for Office Management BG 2000 English III	3 Credits	
English skills and proficiency for office management, practice in office work arrangement, meeting organization and minutes taking, appropriate work etiquette and professionalism			
EN 3288 Prerequisite:	English for Airline Business BG 2000 English III	3 Credits	
English communicative skills used in airline business, basic knowledge of the aviation industry and airline works, and specific terminology for airline business			
EN 3289 Prerequisite:	English for Music Business BG 2000 English III	3 Credits	
	ba 2000 English m		
	terminology, and printed materials used in the music industry		
EN 4232 Prerequisite:	terminology, and printed materials used in the music industry Business Conversation EN 3210 Business Communication in English I	3 Credits	
EN 4232 Prerequisite: Practice in conversation on t	terminology, and printed materials used in the music industry Business Conversation		
EN 4232 Prerequisite: Practice in conversation on f guage in business settings, eff EN 4233 Prerequisite:	terminology, and printed materials used in the music industry Business Conversation EN 3210 Business Communication in English I topics related to business, development of efficiency in the oral applica		

EN 4240 Prerequisite:	Reading in English Newspapers BG 2001 English IV	3 Credits
Analysis of various forms of	journalism: headline news, columns, editorials, news features and int the impact of journalism on society	eresting topics,
EN 4241 Prerequisite:	Critical and Analytical Reading BG 2001 English IV	3 Credits
	analytical reading skills, identification of various types of rhetorical stranic and humanitarian issues	tegies, analysis
EN 4250 Prerequisite:	Understanding, Note-taking and Summarizing BG 2001 English IV	3 Credits
Advanced skills in understand	ing, note-taking, outlining and summarizing both in written and spoken ganizing and drafting of detailed business reports	texts related to
EN 4252 Prerequisite:	Article Writing BG 2001 English IV	3 Credits
	and essay writing for various media	
EN 4253 Prerequisite:	Introduction to Public Relations Writing BG 2001 English IV	3 Credits
Introduction to public relation	ns writing, use of research and language techniques to create good rel	ationships with
EN 4254 Prerequisite:	olders, government and general public Academic Writing BG 2001 English IV	3 Credits
	ommunication within academic and business contexts in an internatio	onally accepted
EN 4256 Prerequisite:	Introduction to Business Research Writing EN 3210 Business Communication in English I	3 Credits
	usiness research, practice in writing for clarity and efficiency with corre earch documents	ct terminology,
EN 4262 Prerequisite:	Reading of Modern Viewpoints BG 2001 English IV	3 Credits
Reading and discussions of te	exts representing recent thoughts and views on the human civilization, t development, analysis of written documents published for the purpose of fields	
EN 4266 Prerequisite:	Reading Thai Literary Works in English By consent of the instructor	3 Credits
Recent literary works and oth	ner texts written in English, or translated into English by Thai authors, ical, social and religious concepts embedded in the writings and practi	
EN 4267 Prerequisite:	Aspects of American Culture By consent of the instructor	3 Credits
	roach to various features of American values and their impact on aspec	ts of American
EN 4272 Prerequisite: or or	Translation in Business English BG 2001 English IV EN 3270 Translation: English-Thai EN 3271 Translation: Thai-English	3 Credits

Translation of business contents in printed materials and media from English into Thai and Thai into English

Seminar on selected topics related to business or business English, case study in a form of workshop and/or panel discussion for efficient communicative and leadership skills

3 Credits

FIN 2700	Money, Banking and Financial Markets	3 Credits
Prerequisite:	BG 1200 Mathematics for Business	

Principles of money, financial system, financial intermediaries, financial markets, interest rate determination, money supply and the impacts of monetary and fiscal policies on money supply, financial statements analysis, pricing of debt instruments, time value of money, foreign exchange system, banking products and services, application of principles of finance on the money management including financial planning, personal investment, budgeting, tax planning, credit management, insurance protection, and retirement planning.

FIN 3701	Corporate Finance	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

Introduction to corporate financial management and comprehensive overview from managerial perspectives, theories related to the corporate investment, financing options and decision making, time value of money, securities valuation, analysis of financial statement, cash flow and leverage, working capital management, cost of capital, capital structure, and capital budgeting for corporation.

FIN 3711	Investment	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Fundamental knowledge of investment: definitions, theories, implementations, and decision making in the financial markets including philosophical basis of investment principles, risk and expected return relationship, company and securities analysis, valuation frameworks and methodologies, portfolio management theory, portfolio management and analysis, capital market theory, capital market efficiency, fixed income valuation, and introduction to derivative securities.

FIN 3712	Money and Capital Markets	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

A comprehensive study of concepts, theories and application of financial system including financial markets, financial institutions, financial risks, financial assets, covering topics such as interest rate, asset pricing, flow of funds, term structure of interest, duration, loanable fund theory, money and capital markets with respect to structural characteristics, operations, roles, regulations, management, instruments, and market participants, a discussion of government, Central Bank and regulators, and financial institutions such as pension funds, mutual funds and insurance companies with respect to their operations, products/services, challenges and trends.

FIN 3713	Business Analysis and Valuation	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Financial statements as a framework for business analysis by applying integrating the concepts of accounting, economics and business perspectives to examine the companies' performance, value the companies, and evaluate the potential investment opportunity in order to make sound business decisions.

FIN 3714	Business Condition Analysis	3 Credits
Prerequisite:	BG 2400 Macroeconomics	

Understanding of the working of macro-economy that crucially affects business activities such as production, consumption and investment by using tools of macroeconomic theory and applying them to an analysis of the change in economic environment that caused by economic growth, business cycle, unemployment, inflation, aggregate demand and aggregate supply, national income, money supply, interest rate, international trade and exchange rate in order to understand the impact of government's and the Central Bank's policies on industry, financial market economy and business environment.

FIN 3715
Prerequisite:
or

Personal Finance FIN 2700 Money, Banking and Financial Markets ECO 3713 Economics of Money and Banking

Conceptual framework for making personal financial planning, management and decision, available techniques and tools, importance of personal finance, personal income, spending and budgeting, money management, wealth management, debt management, risk management, credit management, taxes implications, basic investment techniques, investment planning and strategies (saving, credit and debt instruments, life and property insurance, mutual funds, retirement, housing and automobile decision, consumer credits, etc.), consumer financial responsibilities, and current issues in personal finance.

3 Credits

FIN 3716	Export-Import Procedure and Financing	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Institutional arrangements, methods, and techniques used to finance international trade with special emphasis on export-import financing within Thailand, government's and financial institutions' rules, regulations and services, financial markets for export-import financing instruments, risk-return aspects of international trades, insurance needs, use of letters of credits, international factoring, accounts receivable insurance, other financing techniques, required export-import documentation, export-import rules and regulations and pertinent customs procedures and practices.

FIN 3723	Central Banking System and Policy	3 Credits
Prerequisite:	FIN 2700 Money, Banking and Financial Markets	
or	ECO 3713 Economics of Money and Banking	

Basic principles and practical implementation of the Central banking, functioning of the financial markets in an attempt to better understand the monetary policy transmission and how the Central bank's operations affect financial institutions and economic system of the country, causes and management of banking crises with emphasis on policies designed to prevent them, such as capital adequacy regulations, deposit insurance, and lender of last resort function of the Central banks.

FIN 3724	Financial Feasibility Planning	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Theories with practice to assess structure, procedures and data of an investment project in order to evaluate its feasibility, investment opportunities, relationship between financial feasibility and other related factors: economic feasibility, marketing situations, and legal framework in making investment decision.

FIN 3725	Managerial Economics	3 Credits
Prerequisites:	BG 2400 Macroeconomics	
	BG 2401 Microeconomics	

Application of economic theories, methodologies and analysis to develop essential tools for making optimal decision, demand-supply analysis and estimation, production and cost analysis under different market structures, forecasting, competitive analysis, game theory, and decision making under uncertainty.

FIN 3726	Financial Statement Analysis	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Principles, concepts, analytical process and techniques employed in interpretation and analysis of financial statements in assessing a firm's performance, prospects and value in order to make business decision, comprehensive analysis of financing activities, investing activities, operating activities, cash flows, return on invested capital, profitability, prospective financial statements, and credit.

FIN 3727	Real Estate Investment Analysis and Valuation	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Real estate valuation, real estate investment, portfolio management, legal aspects of real estate, discounted cash flow, common real estate valuation models, appraisal of real estate development projects, choices of discount rate, risk and return, analysis of risk-return characteristics of commercial real estate, construction of real estate portfolios, diversification in real estate, efficiency of real estate market and its inflation hedging characteristics, real estate portfolio strategies, and performance measurement.

FIN 3728 Prerequisite:

Fixed income instruments and fixed income markets such as technical terms used in the industry, properties of different types of fixed income securities, assessment of value of instruments, techniques used to analyze the market, assessment and control of risk, methods to evaluate direction of changes in interest rates and impact of changes in interest rates on pricing, hedging of forwards, futures and swaps, asset-backed securities, and other fixed income derivatives leading to construction of fixed income investment strategies to achieve expected return on investment.

FIN 3733	Institutional Banking for Emerging Markets	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Characteristics and functions of institutional banking in emerging markets including financial system, products, market factors, legal issues, and risk management of institutional banking, crisis, culture risk and country risk of emerging countries, micro finance, commodity finance, problems encountered in the emerging markets and solutions to the problems, current issues regarding institutional banking in emerging markets, and global banking cases applied to facilitate the understanding of new practices and techniques.

FIN 3734	Financial Mathematics	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Basic calculus for applications in finance and economics, brief review of polynomials, trigonometric, exponential, and logarithmic functions, discussion of derivatives, integration and differential equations as well as applications to real-world problem areas such as marginal analysis, growth and decay, asset-pricing models, and optimization.

FIN 4721	Laws and Practices in Finance	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Legal guide to the application of Thai laws, rules, and regulations to finance industry, focusing on financial institutions laws regulated by the Bank of Thailand (BOT) such as capital requirement, liquidity requirement, and deposit guarantee scheme as well as capital market laws regulated by the Securities and Exchange Commission (SEC) such as issuance of securities, public offering of securities, takeover, to starting a securities businesses and derivatives businesses in Thailand.

FIN 4811	Risk Management
Prerequisite:	FIN 3711 Investment

Financial and non-financial risks framework including concepts, process and practical application containing analytical techniques in identifying, quantifying, assessing, controlling risk and making risk management decision; financial risks including credit risk, market risk and liquidity risk, regarding equity, bond, interest rate, currency, and derivative instruments as well as non-financial risks such as business risk, operational risk, policy risk, legal risk, and reputational risk.

FIN 4812	International Finance
Prerequisite:	IN 3701 Corporate Finance and Senior standing (106 credits)

International finance and financial environment focusing on the managerial aspects of international financial management from the MNCs' perspectives, international financial markets, foreign exchange markets, exchange rate determinations, policies and strategies adopted by MNCs in assessing, planning and managing their foreign exchange rate risk exposures, and international financing, and capital structure decision.

FIN 4813	Financial Management
Prerequisite:	FIN 3701 Corporate Finance and Senior standing (100 credits)

Advanced financial management with emphasis on practical application and case-study approach to strategically evaluate the performance of corporations and create value for shareholders, financial planning and forecasting, cash budgeting, capital structure, capital budgeting, cost of capital, firm valuation, dividend policies, working capital management, and corporate risk management.

FIN 4815	Bank Management
Prerequisite:	FIN 3713 Business Analysis and Valuation

Management and regulations of commercial banks, essential elements in the process of commercial bank management; assets, liabilities and capital management, liquidity management, credit management, risk management, international banking regulatory standards, organization and structure of the commercial banking industry, impact of bank regulatory changes, and current issues on the banking industry.

3 Credits

3 Credits

3 Credits

3 Credits

Portfolio management, theories and models in terms of security analysis, portfolio construction, performance and monitoring, simplified portfolio selection process, optimum portfolio and selection process, investment timing, focusing on analytical techniques through economic, industry and business analysis.

FIN 4818	Seminar in Investment	3 Credits
Prerequisite:	Senior standing (121 credits)	

Contemporary investment instruments regarding equity investment, fixed income instruments, mutual fund and derivatives investment, theories or definition to acknowledge various types of investment products and their importance in the financial markets by applying case studies. Student will attend seminars organized by Stock Exchange of Thailand: SET and Thailand Securities Institute: TSI as well as share experience with distinguish guest lecturers (executive level) from various fields of business and research.

FIN 4819	Contemporary Issues in Finance	3 Credits
Prerequisite:	Department approval and Senior standing (121 credits)	

Contemporary issues in finance and applying theories into real world practices regarding corporate governance, venture capital, merger and acquisition, financial law, business sustainability, investment banking, simulation, wealth management, financial planning, microfinance, and Islamic bank.

FIN 4821	Behavioral Finance	3 Credits
Prerequisites:	FIN 3701 Corporate Finance and	
	MGT 2404 Managerial Psychology	

How individuals and firms make financial decisions and how these decisions might deviate from those predicted by traditional financial or economics theories, existence of psychological biases in financial decision-making, examination of the impacts of these biases on the financial markets and other financial settings, investigation of how insights of behavioral finance complement traditional finance paradigm, limited arbitrage, style investing, stock valuation, portfolio construction, asset allocation, and risk management.

FIN 4822	Individual Research	3 Credits
Prerequisite:	Department approval and Senior standing (Finance and Banking Major)	

Individual research by applying theoretical financial concepts and theories to real world problems of an organization in a selected industry in Thailand, with a specific area of concentration selected by students upon the agreement of a supervisor assigned by the Finance and Banking Department and a submission of a typewritten report and analysis at the end of the semester.

FIN 4832	Entrepreneurial Finance	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

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Venture capital, financing new or small and medium sized enterprises including techniques for forecasting and planning the firm's investment needs, identifying and valuing business opportunities, sources of capital and characteristics, credits and banking relationship, working capital management, assets investment, risk management, business planning, structuring deals, and managing through multiple stages of financing.

FIN 4833	Wealth Management
Prerequisite:	FIN 3701 Corporate Finance

Wealth management by using practical portfolio construction and management, life cycle wealth management, purpose and structure of financial services industry and economic factors that affect investment returns, basis relationship between adviser and client and codes of conduct governing business dealings, process of giving financial advice, importance of regular reviews of a client's circumstances, asset allocation and management, financial assets and markets, investment funds and planning, valuation and risk management, retirement and protection planning, real estate, alternative investment products and tax planning.

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FIN 4911	Quantitative Analysis for Financial Decision	3 Credits
Prerequisite:	FIN 3711 Investment	

Modern quantitative methods including statistical and financial techniques and mathematical models including the concept of financial econometric for analyzing financial data supporting financial decision-making, and testing the models of how financial markets operate and address the relationship among various existing factors that can lead to empirical facts in order to support financial decision-making.

3 Credits

Corporate Strategy and Financial Policies FIN 3701 Corporate Finance and Senior standing (121 Credits)

Corporate strategy, financial policies and theoretical framework used in making corporate decision focusing on current issues in finance including capital structure, mergers and acquisitions, corporate takeovers, financial strategy, valuation, restructuring, leveraged buyouts, tax implications, and other topics related to corporate policy by applying case study and current business situations.

FIN 4922	Derivatives Securities	3 Credits
Prerequisite:	FIN 3711 Investment	

Types of derivative securities, mechanics of their markets, their application for hedging and/or speculation, and their valuation, basic modeling techniques for stock prices and other underlying assets which can be used for valuation of plain derivatives such as forwards, futures, options, and swaps in an arbitrage-less market, practical issues of derivatives trading, valuation, and risk management, and specialized derivatives like exotic options, credit, weather, energy, and other derivatives.

FIN 4923	Advanced Valuation	3 Credits
Prerequisite:	FIN 3713 Business Analysis and Valuation	

Advanced valuation and practical manner by advanced valuation technologies to approximate the market estimate of a firm's assets and equity, complex comparative valuation measurement, theories and applications for appropriate models to support the valuation analysis, sources of return decomposition, real options valuation theories and practices, intangible assets and small firm valuation, taxation, mergers and acquisitions issues valuation, comparative valuation, and private equity.

FIN 4924	Advanced Financial Management	3 Credits
Prerequisite:	FIN 4813 Financial management	

Advanced financial management, role and responsibility towards stakeholders, capital structure and dividend policy of the firm, advanced financial analysis and planning, advanced investment valuation and decisions making for firm, mergers and acquisitions, corporate reconstruction and reorganization, evaluation of alternative advanced international finance, advanced risk management techniques, and identification and assessment of potential impact of emerging issues regarding finance and financial management.

FIN 4925	Introduction to Modeling	3 Credits
Prerequisite:	FIN 4814 Quantitative Methods for Financial Decision	

Financial modeling applicable to business solutions, development and implementation of financial models in making financial decision, use of appropriated software (Spreadsheet - Microsoft Excel and R) in handling complicate financial modeling and large data to simulate and analyze stock price and return, portfolio optimization, fitting and forecasting technique with time series data, and MCMC method for finance.

FR 0500	French for Beginners I	3 Credits

Basics of the French language in listening, speaking, reading, and writing in an interactive and communicative way and day-to-day French.

FR 0501	French for Beginners II	3 Credits
Prerequisite:	FR 0500 French for Beginners I	

Intermediate French grammar, practice of listening, speaking reading and writing in simple French in a range of everyday situations.

FR 1500	Introduction to French	3 Credits
	fundamental grammar, practice of reading and writing short essay and d orehension and expressions.	lialogues on various areas,
FR 1501 Prerequisite:	French I FR 1500 Introduction to French	3 Credits

Higher level of grammar, reading basic texts and dialogues concerned with everyday life in French-speaking countries and practice of writing paragraph.

FR 2501 Prerequisite:	French II FR 1501 French I	3 Credits
	ure, reading texts and dialogues concerned with everyday life in French ort articles.	-speaking coun-
FR 2502 Prerequisite:	French III FR 2501 French II	3 Credits
Advanced grammar structure	e, reading texts and dialogues concerned with everyday life in French- ort articles with complex sentences.	-speaking coun-
FR 3503 Prerequisite:	Introduction to Business French FR 2502 French III	3 Credits
	bulary, practice of reading and writing business texts.	
FR 3510 Prerequisite:	Business Communication in French I FR 2502 French III	3 Credits
	usiness, various types and forms of letters, practice of listening, speaki siness context.	ng, reading and
FR 3511 Prerequisite:	Business Communication in French II FR 3510 Business Communication in French I	3 Credits
Review technical terms in b	business letters, study advanced French for career purposes, practice coness letters with complex forms and contents.	of speaking and
FR 3520 Prerequisite:	Introduction to French Linguistics FR 2502 French III	3 Credits
	f spoken language, features of French language: phonemics, phonetic	s and grammar
FR 3530 Prerequisite:	Oral Comprehension and Expression FR 2502 French III	3 Credits
	nprehension and discussion, technique of giving opinion and argument	on various top-
FR 3531 Prerequisite:	French Conversation and Discussion I FR 3530 Oral Comprehension and Expression	3 Credits
	very-day life and business topics, group and panel discussion pattern.	
FR 3534 Prerequisite:	French Phonetics FR 2502 French III	3 Credits
	phonetics, speech articulators, French speech sounds system, symbols on s.	of IPA and tran-
FR 3535 Prerequisite:	Basic Conversation in Business French I FR 2501French II	3 Credits
	eaking skills with emphasis on business topics, formal and informal bu	siness conversa-
FR 3536 Prerequisite:	Basic Writing in Business French I FR 2501 French II	3 Credits
	ugh intensive practical exercises in grammar and vocabulary, writing do	cuments related

Practice of writing skills through intensive practical exercises in grammar and vocabulary, writing documents related to business: curriculum vitae., advertisement, signs used in business, such as in hotels, restaurants, airports, companies, etc.

FR 3541 Prerequisite:	French Reading and Oral Report FR 2502 French III	3 Credits
	tainability of data and oral report through business articles.	
FR 3570 Prerequisite:	Translation: French-Thai (or FR3531 French Conversation and Discussion I - for internat FR 2502 French III	3 Credits ional students)
Translation of sentence advertisement and web	s, paragraphs and articles from various sources : extracts from a sites, selection of proper words, idioms and structures to convey nal documents, discussion on some major problems specific to v	the accurate meanings and
FR 3580 Prerequisite:	French for Secretaries FR 2502 French III	3 Credits
Skills and correctness i	in hearing, speaking, reading and writing of the French langua and techniques of business communication, practice of compos	
FR 3581 Prerequisite:	French for Tourism FR 2502 French III	3 Credits
	uage in tourism, a field trip with the professional guide, general I selected situation.	knowledge of tourism busi-
FR 3582 Prerequisite:	French for Hotels FR 2502 French III	3 Credits
Various dialogues of Fre	ench as used in hotels and restaurants. reception, services and r -Thai foods and beverages, French wine.	nessage taking from inside
FR 4504 Prerequisite:	Business French I FR 3503 Introduction to Business French	3 Credits
	and written skills in business contexts with advanced vocabulary,	in-depth study of business
FR 4505 Prerequisite:	Business French II FR 4504 Business French I	3 Credits
	usiness French vocabulary with emphasis on fluency of speakin	g and writing, critical and
FR 4532 Prerequisite:	French Conversation and Discussion II FR 3531 French Conversation and Discussion I	3 Credits
	ersation on various topics for career purposes, organization of i	deas and clarity of expres-
FR 4533 Prerequisite:	Public Speaking in French FR 3531 French Conversation and Discussion I	3 Credits
Methods and technique munication and langua	es of listening, speaking and deliver speeches, practice of argun ge behavior, selection and evaluation of materials for speech; o nd the optimal speaker-listener relation.	
FR 4540	Reading in Business French FR 2502 French III	3 Credits

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Techniques of reading articles in business contexts, interpretation of factors and purposes used in the articles, developing outlines and short synopses of selected material and leading discussions on the assigned topics.

FR 4572 Prerequisite:	Translation in Business French FR 3503 Introduction to Business French	3 Credits
Practice of translation magazines and interne	n from French into Thai: various types of articles and business et articles, etc.	data from newspapers, texts,
FR 4573 Prerequisite:	Aspects of French-Speaking Countries FR 2502 French III	3 Credits
	tries' life style, thought patterns, mentality, civilization and interdisci	 plinary studies.
FR 4590 Prerequisite:	Seminar Consent of Instructor	3 Credits
	sing Business French. Workshop and panel discussions.	
FR 4591 Prerequisite:	Selected Topics in French Studies FR 2502 French III	3 Credits
	ich language or culture on assigned topics.	
FT 3100 Prerequisite:	Introduction to Food Technology BS 2006 Basic Biochemistry	3 Credits
and manufacture of f cial foods, current co	in relation to modern societies, scientific principles and operatio food, food composition, nutrition labeling and marketing of a re nsumer issues such as the safety of food additives, food irradiat food regulations and future trends in food supplies.	presentative range of commer-
FT 3102 Prerequisite:	Food Engineering BT 3013 Introduction to Bio-processing Engineering	3 Credits
	les of engineering for various unit operations in food-industry, in ers, refrigerators, boilers, retorts, and size reduction equipment,	ncluding pumps, heat exchang-
FT 3103 Prerequisite:	Food Microbiology BS 2011 Introduction to Microbiology	3 Credits
Microorganisms in fo pathogens e.g. bacte	od safety and spoilage, their growth parameters, main character eria, viruses, parasites and fungi, contamination routes and si e means for controlling, a background to practically identify an- cory sessions.	urviving in foods, subsequent
FT 3104 Prerequisite:	Human Nutrition BS 2006 Basic Biochemistry	3 Credits
Importance of nutritic man body, the digest	on in daily life, dietary nutrients, chemical composition, food sou tion, absorption, and metabolism of nutrients, diseases associate for people through the life cycle for example pregnancy and lace and the later years.	d with nutrient deficiency, and
FT 3105 Prerequisite:	Human Nutrition BS 2006 Basic Biochemistry	3 Credits
	on in daily life, dietary nutrients, chemical composition, food sou	

Reading French Magazines and Newspapers FR 3503 Introduction to Business French

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Readings and analyses of various articles, with the study of the vocabulary and the context of the articles on the current interest and business oriented, study of French language press in particular: newspapers, magazines and articles through the internet, and its impact on the French-speaking society and discussion in class by groups or

FR 4542

panels.

Prerequisite:

3 Credits

man body, the digestion, absorption, and metabolism of nutrients, diseases associated with nutrient deficiency, and appropriated nutrition for people through the life cycle for example pregnancy and lactation, infancy, childhood, and adolescence, adulthood and the later years.

FT 3106

Fundamental knowledge of commercial food processing, thermal processing, low temperature processing, freezing, dehydration, irradiation and chemical preservation, food variables, food guality and raw material preparation, minimal process and waste treatment in food factory, and corresponding laboratory sessions.

3 Credits

3 Credits

FT 3108	Food Chemistry I	3 Credits
Prerequisites:	BS 2004 Analytical Chemistry	
	BS 2006 Basic Biochemistry	

Basic food components, water, carbohydrate, protein and lipid, their chemistry governing properties and functions in different foods, changes of food components during processing and storing, chemical spoilages and prevention, and corresponding laboratory sessions.

FT 3109	Food Chemistry II	3 Credits
Prerequisite:	FT 3108 Food Chemistry I	

Chemistry of pigments, odor and food additives, factors affecting properties, functions, sources and mechanism in different foods, chemical reaction of enzymes, changes and contamination of toxic substances in foods, theory, selection, analysis techniques of food with scientific instrument, and corresponding laboratory sessions.

FT 4108	Industrial Food Processing II	3 Credits
Prerequisite:	FT 3106 Industrial Food Processing I	

Processing technologies of food products, fruit and vegetable, cereal, meat and poultry, fishery, bakery, confectionery, dairy, appropriated packaging, and factors affecting product qualities during storage and transportation, basic plant layout, advanced food processing, and corresponding laboratory sessions.

FT 4110	Food Marketing and Management	3 Credits
Prerequisite:	BG 2403 Introduction to Economics	

Basic principles of marketing and management of food products, environmental factors in food industry, consumer's buying behavior, food marketing research, product development, pricing strategy, distribution channel, and promotion strategy with examples and case studies of food products.

FT 4112	Food Quality Control	3 Credits
Prerequisites:	BG 1201 Statistics I and	
	FT 3106 Industrial Food Processing I	

Food production as a systematic and controlling process, acceptance sampling plans for analysis and control of quality, quality management, quality control, quality assurance and quality improvement, quality assurance systems such as Total Quality Management and ISO series within food factory; and corresponding laboratory sessions. Food Product Development FT 4108 Industrial Food Processing II FT 4113 3 Credits Prerequisite:

New products and new product development process for food industry, how to generate and convert product idea concept into actual product ready for commercialization which include idea screening, product concept development, product formulation and process development, product quality testing, shelf life evaluation, product launching and evaluation, and corresponding laboratory sessions.

FT 4114	Bakery Technology	
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Science and technology in the production of safe and nutritious bakery products, properties and quality of ingredients, production methods of different bakery products, equipment, quality control, causes of product spoilage, storage methods to maintain good quality of bakery products, plant sanitation, packaging of bakery products, and corresponding laboratory sessions.

FT 4115	Fruit and Vegetable Technology	3 Credits
Prerequisite:	FT 4108 Industrial Food Processing II	
or	AI 4208 Processing of Agricultural Products II	

Chemical and physical structure of fruits and vegetables, post harvest changes and handling methods of fresh fruits and vegetables, and commercial processing methods for preservation of fruits and vegetables, advanced technologies in fruit and vegetable processing, and corresponding laboratory sessions.

and

Food Toxicology
FT 3103 Food Microbiology
FT 3104 Human Nutrition
FT 3109 Food Chemistry II

Chemistry and biochemistry of toxins naturally occurring in food from plants and animals, toxins from microorganism, food additives, and chemical contaminants, routes of entry, metabolism, manifestation of the toxin in body, and corresponding laboratory sessions.

FT 4117	Dairy Technology	3 Credits
Prerequisite:	FT 4108 Industrial Food Processing II	
or	AI 4208 Processing of Agricultural Product II	

Milk production and quality in terms of composition, structure, properties and microbiology of milk, principles of commercial practices in processing of milk and dairy products, advanced technology used in dairy industries, and corresponding laboratory sessions.

FT 4120	Food Additives	3 Credits
Prerequisite:	FT 3109 Food Chemistry II	

Types of food additives from nature and synthesis, amino acids, antioxidants, antimicrobial agents, enzymes, polysaccharides, food colors, and food flavor, functional food ingredients, phytochemicals, flavonoids, phenolic compounds, laws and regulations, their significant in commercial food processing, and corresponding laboratory session.

FT 4121	Meat Poultry and Fishery Technology	3 Credits
Prerequisites:	BS 2011 Introduction to Microbiology	
	AI 4208 Processing of Agricultural Product II	
	FT 4108 Industrial Food Processing II	

Chemical and physical structure of animal muscles used for human consumption, postmortem changes in muscles and factors affecting the quality of muscle products, pigment development and changes in animal tissue, deterioration and spoilage of animal tissues during processing and storage, and production of different meat, poultry and fishery products, and corresponding laboratory sessions.

FT 4122	Confectionery Technology	3 Credits
Prerequisite:	FT 4108 Industrial Food Processing II	

Impact qualities and properties of raw materials used in confectionery products, characteristics and manufacturing processes of various confections, quality control, spoilage, packaging, storage of the confectionery, and corresponding laboratory sessions.

FT 4123	Food Sanitation	
Prerequisite:	FT 3103 Food Microbiology	

Principles of cGMPs of food processing, plant layout, receiving raw material, food handling, warehouse controlling, cleaning, pest controlling, water treatment and personnel hygiene, theory and practices on principles of Hazard Analysis of Critical Control Points (HACCP) to produce safe food product; and corresponding laboratory sessions.

FT 4124	Lipid Technology	
Prerequisites:	BS 2006 Basic Biochemistry and	
	FT 4108 Industrial Food Processing II	
or	AI 4208 Processing of Agricultural Product II	

Chemistry and biochemistry of triglycerides and related lipid substances, biosynthesis and degradation of lipids, industrial production of fats and oils including extraction, degumming, and refining, deordorization, crystallization, and hydrogenation, microbial and enzymatic modification of lipids, corresponding laboratory sessions involving with analytical methods and quality control of the edible fat and oil and their products.

FT 4125	Beverage Technology
Prerequisite:	FT 4108 Industrial Food Processing II

Technology for the production of carbonated and non-carbonated, alcoholic and non-alcoholic beverages, the roles of beverages in human life, the manufacturing processes, quality control for production of safe beverages, packaging and beverage packages, and corresponding laboratory sessions.

3 Credits

3 Credits

FT 4126 Prerequisite: or	Food Packaging FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Products II	3 Credits
Chemical, physical and biolog packages such as paper, gl	gical properties of packaging material, production techniques and quality ass, tin plate, plastic films, aluminum foil, laminates and composite m to extend shelf life of different types of food and current trends in devel	naterials, criteria
FT 4127 Prerequisite: or	Cereal Technology FT 4108 Industrial Food Processing II AI 4208 Processing of Agricultural Product II	3 Credits
Composition, structure and	significance of various kinds of cereals, manufacturing technologies, products, and development of new products from cereal, and correspor	
FT 4131	Selected Topic	3 Credits
	dy of a selected topic in the field of food technology including correspon	nding laboratory
FT 4132 Prerequisites: and	Color and Flavor Technology BS 2004 Analytical Chemistry BS 2005 Analytical Chemistry Laboratory	3 Credits
Chemistry of various food of factors, flavor chemistry, pro	colorants, their properties, physiological changes, measurement method perties of flavor, development and extraction process of flavor from pla ion of color and flavor in foods, and corresponding laboratory sessions.	
FT 4190 Prerequisite:	Special Project BT 3017 Principles of Research	3 Credits
A project involving an aspect	t of food technology, design of study, collection and analysis of experime nber's supervision. A written report and presentation of the research wo	
FT 4191	Field Trip	1 Credit
Visit to food and agro-indust ten report of the tour is requir	rial production facilities to view specific aspects of processing and mana	gement. A writ-
FT 4192	Seminar	1 Credit
Method in preparing and pe	erforming a scientific presentation, demonstration of scientific research the field of biotechnology, food technology and agro-industry, and stude from scientific journals.	
FT 4194	Internship	Non-credit
Practical experience from tra	nining in food technology or biotechnology related industry, governmer han 300 hours to develop skills and confidence after graduation.	nt sector and/or
GE 1101	Thai Civilization	3 Credits
Foundation and evolution of the Thai race from prehistoric, and historical periods in the Sukhothai, Ayudhaya, Thon- buri, and Rattanakosin periods, Thai culture and society during the present period under King Rama IX, and the implementation of the Self-sufficient Economy and other royal projects.		
GE 1102	Introduction to Philosophy	3 Credits
Discussions on basic philoso tence and essence, human t	ophical problem of western and eastern philosophies, such as reality rue happiness, value of life, human freedom, and Self and society, inclu temology, and moral philosophy from Empiricism, Rationalism, Deterr	uding important

GE 1201	Information Literacy Skills	1 Credit
Definition and importance	of information literacy skills, values of information, determination of in ues in gathering information, evaluation, syntheses and information utilization	
GE 1202	General Psychology	3 Credits
	ries and factors, processes and conditions that form one's characters	s, behaviors, at-
GE 1203	Society, Politics and Economics	3 Credits
Culture and relationship be contemporary social proble	etween culture and individual, factors in social and cultural changes, ms and social control, political and economic functions, the causes an , political and economic changes, globalization and related problems.	
GE 1204	Physical Education	1 Credit
	d psychomotor skills, creating unity among students, and developing the sp	ortive mind.
GE 1301	Environmental Science	3 Credits
General science, scientific a	pproaches, understanding the interrelationships of the nature, identificant ms, application and alternative solutions for preventing and solving th	
GE 1401 Prerequisite:	Language and Communication Skills (Only for foreign students)	3 Credits
Theoretical introduction to	the nature of language, communication skills in different situations such arge group, small group, and interpersonal communication, communication	
GE 1403 Prerequisite:	Communication in Thai (Only for Thai students)	3 Credits
	g, speaking, reading and writing, main ideas finding, information search aking.	by state-of-the-
GE 1404	Thai Culture and Traditions (Required GE course for Communication Arts international students)	3 Credits
Cultural and traditional pat	terns in Thailand, influence of Thai language on culture, role of traditi ures in different parts of Thailand.	onal beliefs and
GE 2101	World Civilization	3 Credits
Development of human so	ciety, rise and fall of civilizations, achievements and heritages of West e in order to understand their roots and their impacts on modern societies.	ern and Eastern
GE 2103	Art of Reasoning	3 Credits
	jical elements and rational applications for daily life emphasizing on de nd fallacy.	eductive and in-
GE 2202	Ethics	3 Credits
	the world, self-discovery, self-love, self-respect, self-actualization, relatiety, and man and the world, possible problems of living together in the	
GL 1101 Prerequisite:	Elements of Spoken Language BG 1001 English I	3 Credits
Essential elements of Spoke	en language; concepts and principles of phonetics; use of International netic transcription and practice in speech sound production and identi s.	

GL 3102 Prerequisite:	Introduction to Linguistics BG 2000 English III	3 Credits
Characteristics, functions, con	ncepts and principles of the human language; four major structural control on another; language change, language acquisition and the relation	
GL 3103 Prerequisite:	Language, Culture and Behavior GL 3102 Introduction to Linguistics	3 Credits
Relationships between langu	Jage, culture and behavior in an international environment; issues rela or; language variations in different contexts, World English, cross-cult lication.	
GS 1004	Arts of Delineation	3 Credits
Elementary concepts and teo	chniques of freehand perspective sketch and rendering, training in perc s media and techniques of creation of artistic forms in light, shade and opment of personal skills.	
GS 1005	Graphic Presentation	3 Credits
Essential methods of prese	ntation, emphasizing upon concepts, theories and skills of using va - dimensional presentation to three-dimensional modeling for communica	
GS 1006	General Calculus	3 Credits
Introduction to differential	calculus, review of algebra, coordinate geometry and graphing techr rigonometric functions, limits, differentiation, and integration.	niques, functions,
GS 1007	General Physics	3 Credits
Introduction to structural pr and elasticity of materials, ri	operties of construction materials, loads and reactions, stress and strigid-body concept and free-body diagram, stability and determinacy, b n equations, shear, moment and bending moment diagram, forces anal	ehavior of struc-
GS 1302	Contemporary Science and Sustainability	3 Credits
Contemporary science conce	epts, scientific invention and innovation, the essential of ecological m globalization, resources, energy and environmental issues, multidisciplin	
GS 2103	Thai Buddhism	3 Credits
	ism, history of Buddhism in Thailand and influences of Buddhism to	wards Thai Bud-
GS 2104	Contextual Religions	3 Credits
	dy on the greatest religions of the world, especially Christianity, Islam	, Buddhism, Tao-
GS 2106	Logical Thinking and Application	3 Credits
Analytical study of complicat	te logic through symbolization, justification of argumentative validity vi of premises in Logical Formulae	a contingency of
GS 2205	Communication and Cultures	3 Credits
Communication skills, effecti sonal intelligence, skills in lear	ve interaction with other people, human relationship in a multicultural	society, interper-

GS 2206	Personality Development	3 Credits
Improvement of one's	self-confidence, positive thinking towards oneself, making friends, tak , keeping healthy, public speaking, and other interpersonal relationship sk	
GS 2207	Sports, Health and Wellness Development	3 Credits
Knowledge and under	rstanding of sports, exercise, health promotion and fitness, principles of self-care for good health and wellness development	of sport spectator, selec-
GS 2208	Thai Politics	3 Credits
Thai politics from mo	onarchy to democracy, political reforms, military in ascendancy, deve d private sectors, election, political corruption	elopment of democracy,
GS 3101	Applied Philosophy to Contemporary Society	3 Credits
Applied philosophy in	contemporary ethical topics and problems, the relationship between action, business, and communication	moral theories and law,
GS 3401 Prerequisite:	Public Speaking in Thai (For international students only)	3 Credits
Knowledge and Thai I	basic knowledge skills in communication, basic principles and technice, and development of speakers' personality	ques of effective speak-
HTM 3001 Prerequisite:	Sustainable Tourism HTM 3102 Introduction to Tourism Management	3 Credits
management and plan HTM 3002 Prerequisite:	Business Operation and Leadership in Hospitality and Tourism HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Prerequisite:	HTM 3205 Marketing in Hospitality and Tourism	
the second second second second second second	eories and styles of leadership in the field of hospitality and tourism in four field of hospitality and tourism in four four sources and operation decision making to improve by utilizing all the un	
HTM 3003 Prerequisites:	Information Technology in Hospitality and Tourism BIS 2180 Information Technology HTM 3101 Introduction to Hospitality Management HTM 3102 Introduction to Tourism Management	3 Credits
	hnologies in the hospitality and tourism industries, property managem actice of current global distribution system software packages.	ent systems and central
HTM 3101 Prerequisite:	Introduction to Hospitality Management MKT 2280 Principles of Marketing	3 Credits
Fundamentals of hote	I management, hotel structure and staff, receptions, public relations, beverage, housekeeping and engineering.	other hotel services en-
HTM 3102 Prerequisite:	Introduction to Tourism Management MKT 2280 Principles of Marketing	3 Credits
Aspects of tourism del cess, impacts of touris	mand and supply-element of tourism, model of consumer behavior ar im together with role and importance of tourism planning in minimizin- ategies to ensure sustainable evolution, and ticketing process.	
HTM 3103 Prerequisite:	Consumer Behavior in Hospitality and Tourism Industry MKT 2280 Principles of Marketing	3 Credits
Diversity of tourists a psychological factors, consideration, purchasi	nd their consumer behavior, traditional, social and cultural backgro social groups, demographic variables, social strata and culture that ing behavior and consumption, tourist behavior with qualitative and tanding of diversity of tourist behavior.	form tourist attitudes,

3 Credits

Overview of policies, practices, and procedures that can be used to attract, select, develop, and retain quality employees, factors that influence human resource management policies and practices, substantive situations to be faced as a future hospitality and tourism professional

HTM 3205	Marketing in Hospitality and Tourism	3 Credits
Prerequisites:	HTM 3101 Introduction to Hospitality Management	
	HTM 3102 Introduction to Tourism Management	

Application of knowledge and skills acquired in principles of marketing and consumer behavior to the hospitality and tourism industry, evaluation of the industry, analyzing and developing marketing plans, application of various promotional strategies and tools to achieve organization's marketing objectives, department's structure, functions, and responsibilities of key personnel.

HTM 3211	Food and Beverage Management	3 Credits
Prerequisite:	HTM 3101 Introduction to Hospitality Management	

Role and contribution of the Food & Beverage department, its structure, and functions and responsibilities of the key personnel, overview of the department's functions: purchasing, receiving, storing, food preparation, stewarding, planning the menu, food service and sales, including food sanitation, food quality and kitchen equipment.

HTM 4111	Food and Beverage Service	3 Credits
Prerequisite:	HTM 3211 Food and Beverage Management	

Food and beverage operations, service principles and practices, types of table service of beverage, identification of service and restaurant equipment and supplies, effective employee recruitment and selection as well as strategies for orientation, training and evaluations, principles and application of menu planning, operations of in-house and outside catering, as well as sales and cash control.

HTM 4112	Kitchen Operation	3 Credits
Prerequisite:	HTM 3211 Food and Beverage Management	

Principles and techniques involved in food production, kitchen organization, food and personal hygiene, kitchen equipment and utilities, basic food preparation methods, kitchen stewarding, sanitation food production control and standards, and kitchen terms.

HIM 4210	Strategic Management in Hospitality and Tourism	3 Credits
Prerequisite:	HTM 3205 Marketing in Hospitality and Tourism	

Analytical discussion of key areas of contemporary hospitality and tourism management: evaluation of the most important global trends in tourism, analysis of the impact of crucial environmental issues and their implications and the major factors affecting international tourism.

HTM 4301	Room Division Management	3 Credits
Prerequisite:	HTM 3205 Marketing in Hospitality and Tourism	

Room division, front office operations which covers reception, reservation, room sales, registration, cashier responsibilities and night-auditing, functions and roles of the hotel housekeeping department and coordination with the front office department.

HTM 4302	Event Management	3 Credits
Prerequisite:	HTM 3205 Marketing in Hospitality and Tourism	

Principles of event management, formulation of event tourism strategies such as implementation of festivals, entertainment, corporate, cultural and sports events.

HTM 4303	Service Management	3 Credits
Prerequisite:	HTM 3205 Marketing in Hospitality and Tourism	

A holistic and interdisciplinary approach which is used to explore the principles of service management, understanding of what actually constitutes quality, nature of service and strategies for improving it. 3 Credits

Tourism planning in both public and private sectors at local, regional and national levels including the components of planning process, the role and the importance of the involvement of communities, different impacts of tourism development, tourism policies and strategies for successful development.

development, tourism policies	and strategies for successful development.	
HTM 4402 Prerequisite:	Tourism Destination Management HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Comprehensive coverage of	various tourism destinations, basic principles underlying the develo te trends and implementation of different management approaches.	pment of tourism
HTM 4403 Prerequisite:	Tour Guiding and Operation in Practice HTM 3205 Marketing in Hospitality and Tourism	3 Credits
Roles and ethics of a profes	sional tour guide including tour guide practices, tourist safety meas Thai tourism law, aspects of tourism distribution channels and char	
HTM 4404 Prerequisite:	Cultural Heritage Tourism HTM 3001 Sustainable Tourism	3 Credits
Conceptual partnership of cul heritage visitors' behavior and	Itural heritage and tourism, analysis of a wide range of cultural heritage d motivation, contemporary approaches to heritage tourism developm les of interpretation programs employed in major cultural heritage si	nent and manage-
HTM 4405 Prerequisite:	International Tourism Studies HTM 4210 Strategic Management in Hospitality and Tourism	3 Credits
International issues governing	g the tourism industry including industry trends and best practices, ro nizations, principles and practices of related laws and regulations of to es.	
IBM 2702 Prerequisite:	International Business Environment BG 2401 Microeconomics	3 Credits
Global business environment of international business env	focusing on economics, social-cultural, and political, regulatory and vironment, international business theories, global business enviror ments, government business relationships, global perspectives, ch business environment	nment, FDI, trade
IBM 3642 Prerequisite:	International Buyer Behavior MGT 2404 Managerial Psychology MKT 2280 Principles of Marketing	3 Credits
Methods of how industrial ar segmentation, targeting and ables in addition to culture responses of industrial and c	nd consumer goods are marketed to international buyers and the st positioning, international buyer behavior models and decision maki that affect international buyers' purchase behaviors, cognitive, affect onsumer buyers from other countries in various contexts such as in ncentives, direct marketing and e-commerce.	ng schemes, vari- ive and co-native

IBM 3643	International Marketing Communications	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Global and domestic cultural diversity and their impact on IMC strategy development, values, behaviors, and underlying assumptions related to verbal and visual communication strategies, the debate surrounding standardization versus localization of worldwide marketing communications campaigns, case studies of IMC campaigns directed to culturally specific domestic and international audiences.

IBM 3711	Comparative Management	3 Credits
Prerequisite:	IBM 2702 International Business Environment	

Differences and similarities of managerial systems and management practices in different cultural settings, definitions and concepts of culture, cultural differences at the national, organizational and managerial levels, regional and country cultural characteristics, complexities and challenges of running global organizations.

IBM 3713 Prerequisite:	International Management IBM 3711 Comparative Management	3 Credits
Management of assets a	nd operations beyond the borders of one's home country, managers' lities for planning, organizing, leading and controlling the firm's activi	
IBM 3714 Prerequisite:	Export-Import Policy and Strategy MKT 3620 Global Marketing	3 Credits
Issues involved in deve institutions and their m nizations to promote e	loping comprehensive export/import strategies at national sector oles in balancing exports and imports among sectors, strategic conomic and competitive advantages, procedures and practices import compliance, export/import channels, foreign trade zones, and	use of export-import orga- of export-import financing,
IBM 3722 Prerequisite:	Legal and Ethical Issues in International Business IBM 2702 International Business Environment	3 Credits
General legal and ethic	al aspects involved in international business environment focusin onal contracts, foreign investments and ethical issues across border	g on legal aspects of inter-
IBM 3723 Prerequisite:	International Relations IBM 2702 International Business Environment	3 Credits
Fundamental principles	, issues, conflicts and resolutions in international relations, and ion, the World Trade Organization the World Bank that govern in	
IBM 3841 Prerequisite:	International Pricing Strategy MKT 3620 Global Marketing	3 Credits
Strategic and tactical as ior and psychology) an ing pricing of goods an on pricing structures, a	spects of pricing decisions in international context through both q d quantitative (economics and statistics) analyses, application of p d services in the global market, the influences of both domestic ar cross product lines and customer segments, pricing implications in er pricing issues, and buyer arbitrate affects.	nd international competition
IBM 4811 Prerequisite:	International Strategic Management IBM 3713 International Management and Completion of 118	3 Credits credits
Strategic management edge and skills learned international settings, e	amidst the phenomena of globalization to encourage students to I in earlier courses, critical business skills of understanding and n environmental analysis, challenges and benefits of globalization, ue creation, and evaluation of corporate strategies.	nanaging strategic issues in
IBM 4820 Prerequisite:	International Cooperative Strategy IBM 3713 International Management	3 Credits
Systematic conceptual necessary to form and works for strategic alli	framework of international cooperative strategies and manager manage effective cross-border partnerships, issues related to var ances and partner selection, ownership structure decision, desig ssessment, inter-partner fit/trust building, and evolution and stability	rious typologies and frame- gn of management control
IBM 4840 Prerequisite:	Global Supply Chain Management IBM 3714 Export-Import Policy and Strategy	3 Credits
Activities involved in th about supply chain ma	he flow of goods from point of origin to point of consumption or inagement in the international setting, nature of international pr is management, inventory control, logistics and transportation, dis pply chains.	oblems associated with the
IBM 4841 Prerequisite:	International Services Marketing MKT 3620 Global Marketing and Completion of 106 credits	3 Credits
Services marketing in a cases in the marketing	an international context, market orientation, long-term relationsh of services to help students gain more insight on the issues and to practice their problem-solving skills.	

IBM 4843 Prerequisite:	International Product and Brand Planning MKT 3620 Global Marketing and Completion of 106 credits	3 Credits
Process of developing and ir management such as produ	ntroducing new products and brands for different culture markets, act standardization versus differentiation, brand extensions and o roduct positioning and branding, and their impacts on building brar	dilutions, multiple prod
IBM 4921 Prerequisite:	Individual Research MGT3940 Business Research and Completion of 118 credits	3 Credits
Developing students' ability	to apply a theoretical approach to the real world problems o d, a specific area of concentration will be chosen by students up	
IBM 4923 Prerequisite:	Seminar in Regional Studies Completion of 118 credits	3 Credits
Regional business environn	nents, management practices and activities of multinational c cal skills and strategic thinking in managing operations in these regio	
IDM 3200 Prerequisites:	Quantitative Analysis BG 2200 Statistics II MGT 3905 Operations Management	3 Credits
Probability concepts, foreca	isting, mathematical decision making techniques, normal distri nethod, simulation, and linear programming.	bution theory, decision
DM 2202	Motion and Time Study	3 Credits
IDM 3202 Prerequisites:	BG 2200 Statistics II MGT 3905 Operations Management	
Prerequisites: Operational improvement by making, the implementatior time consisting of time stud	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for proble of new methods which requires the installation and developin /y, predetermined time system or work sampling, measuring performed	g job analysis, standard
Prerequisites: Operational improvement by making, the implementatior time consisting of time stud workers to work efficiently an DM 3203	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for proble of new methods which requires the installation and developin /y, predetermined time system or work sampling, measuring performed	g job analysis, standard
Prerequisites: Operational improvement by making, the implementation time consisting of time stud workers to work efficiently an IDM 3203 Prerequisites: Logistics system, logistics c service level, logistic functio gies, logistical strategies an	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for problem of new methods which requires the installation and developin /y, predetermined time system or work sampling, measuring perford d safely. Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing collaboration, tools and techniques for logistical analysis, trade pos, customer accommodation strategies, procurement strategies d operations, order processing, inventory, transportation, warehous	g job analysis, standard ormance and motivating 3 Credits e-off between cost and s, manufacturing strate
Prerequisites: Operational improvement by making, the implementatior time consisting of time stud workers to work efficiently an IDM 3203 Prerequisites: Logistics system, logistics coservice level, logistic function	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for problem of new methods which requires the installation and developin /y, predetermined time system or work sampling, measuring perford d safely. Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing collaboration, tools and techniques for logistical analysis, trade pos, customer accommodation strategies, procurement strategies d operations, order processing, inventory, transportation, warehous	g job analysis, standard ormance and motivating 3 Credits e-off between cost and s, manufacturing strate
Prerequisites: Dperational improvement by making, the implementation time consisting of time stud workers to work efficiently an DM 3203 Prerequisites: Logistics system, logistics of service level, logistic function gies, logistical strategies an and logistical performance m DM 3204 Prerequisite: Principles of risk management age safety procedures and	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for problem of new methods which requires the installation and developin / predetermined time system or work sampling, measuring perford / d safely. Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing collaboration, tools and techniques for logistical analysis, trade ons, customer accommodation strategies, procurement strategies d operations, order processing, inventory, transportation, wareho easurement. Industrial Safety and Risk Management	g job analysis, standard ormance and motivating 3 Credits e-off between cost and s, manufacturing strate ousing, network design 3 Credits evention, how to man izational members, how
Prerequisites: Deperational improvement by making, the implementation time consisting of time stud workers to work efficiently an DM 3203 Prerequisites: Logistics system, logistics of service level, logistic function gies, logistical strategies an and logistical performance m DM 3204 Prerequisite: Principles of risk management age safety procedures and safety can lead to cost reduct DM 3306 Prerequisite:	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for problem of new methods which requires the installation and developin / predetermined time system or work sampling, measuring perform / safely. Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing collaboration, tools and techniques for logistical analysis, trade ons, customer accommodation strategies, procurement strategies d operations, order processing, inventory, transportation, wareho easurement. Industrial Safety and Risk Management MGT 2900 Principles of Management ent and its process, methods of handling risks especially loss pre how safety cultures can be built and established among organi ion, productivity and efficiency improvement for the company as a v Warehousing and Material Handling IDM 3203 Logistics and Supply Chain Management	g job analysis, standard ormance and motivating 3 Credits e-off between cost and s, manufacturing strate ousing, network design 3 Credits evention, how to man izational members, how
Prerequisites: Operational improvement by making, the implementation time consisting of time stud workers to work efficiently an IDM 3203 Prerequisites: Logistics system, logistics of service level, logistic function gies, logistical strategies and and logistical performance m IDM 3204 Prerequisite: Principles of risk manageme age safety procedures and safety can lead to cost reduct IDM 3306 Prerequisite: Warehousing operations an	BG 2200 Statistics II MGT 3905 Operations Management / identifying process and selecting the appropriate tools for problem of new methods which requires the installation and developing / predetermined time system or work sampling, measuring perform // safely. Logistics and Supply Chain Management MGT 3905 Operations Management MKT 2280 Principles of Marketing collaboration, tools and techniques for logistical analysis, trade ons, customer accommodation strategies, procurement strategies d operations, order processing, inventory, transportation, wareho easurement. Industrial Safety and Risk Management MGT 2900 Principles of Management mt and its process, methods of handling risks especially loss pre how safety cultures can be built and established among organi ion, productivity and efficiency improvement for the company as a v Warehousing and Material Handling	g job analysis, standard ormance and motivating 3 Credits e-off between cost and s, manufacturing strate ousing, network design 3 Credits evention, how to man izational members, how whole. 3 Credits and retrieving systems

analysis of logistics and transportation services, distribution operations, transportation costing, distribution networks management, intermodal transportation and transportation mode interface.
3 Credits

Introduction to relationship management for both customers and suppliers aspects, customer relationship management focusing on its application in marketing and sales strategies, data management and customer data development, organization and CRM, supplier relationship management covering the scope, structure of strategic relationships, selecting and evaluating alliance potential, and incorporating supplier alliances into organization, and leading industrial practices on collaborative relationship e.g. Continuous Replenishment Program.

IDM 3402 Prerequisite:	Facility Management IDM 3203 Logistics and Supply Chain Management	3 Credits
Layout management,	maintenance management, material flow design and control, tota allocation and design, layout setup consideration, site selection, b	
IDM 3403 Prerequisite:	Industrial Engineering Management IDM 3200 Quantitative Analysis	3 Credits
Management of engine	eering aspects of an operation, concept of re-engineering of proces machinery utilization, development of work structure, work flow, a	
IDM 4201 Prerequisites:	Manufacturing Planning and Control MGT 3905 Operations Management IDM 3200 Quantitative Analysis	3 Credits
Production systems, m	naterials planning and control, production aspects, market demand n of production schedule and dispatching, production control sys	
IDM 4202 Prerequisite:	Production Costing and Budgeting ACT 2620 Fundamentals of Managerial Accounting	3 credits
Cost accounting appro tion cost planning and	baches, job order costing, process cost accounting and activity-bas d controlling by budgeting and responsibility accounting, evaluatior d costs and financial statement analysis techniques.	
IDM 4203 Prerequisite:	Quality Management MGT 3905 Operations Management	3 Credits
Principles and practice improvement and qua	es of quality management during production process, application lity control, modern concept of quality with emphasis on the Malcol d six-sigma which increase efficiency and effectiveness in industrial bus	m Baldrige criteria for per-
IDM 4206 Prerequisite:	Industrial Environmental Management GE 1301 Environmental Science	3 Credits
Concepts of environme	ental studies, water system, water supply, wastewater treatment, air pcess, engineering system for air pollution control, solid waste cont	
IDM 4207 Prerequisite:	Internship in Industrial Management(300 Hours) Consent of the Department Chairperson	3 Credits
Internship program wi	th an industrial company for not less than 300 hours of work. We nt's immediate supervisor must be submitted. A report submission a	ekly progress reports and nd final presentation must
IDM 4208 Prerequisites:	Project Analysis and Management FIN 3701 Corporate Finance MGT 3905 Operations Management	3 Credits
Foundation of project	management, project life cycle: starting from project selection unti ging project successfully, simulation program and software for project n	

Foundation of project management, project life cycle: starting from project selection until project termination, concept and tools of managing project successfully, simulation program and software for project management.

3 Credits

IDM 4301	Information Technology in Supply Chain	3 Credits
Prerequisites:	BIS 2180 Information Technology	
	IDM 3203 Logistics and Supply Chain Management	
	IDM 4201 Manufacturing Planning and Control	

Conceptual and practical issues in information systems to aid in decision-making in industry, information technology for resource planning and scheduling: ERP, CRP, APS, RFID, and inventory management, supply chain decision support system in such areas as Demand Planning, Logistics Network Design, Inventory Deployment, Sales & Marketing Region Assignment, DRP, MRP, Production Location Assignment, Fleet Planning, Lead Time Quotation, Production Scheduling, Workforce Scheduling, etc.

IDM 4302	Industrial Strategic Management	3 Credits
Prerequisite:	IDM 4208 Project Analysis and Management	

Definition and different levels of strategies, environmental analysis techniques, analysis of organizational current strategies and resources as well as capabilities, strategy selection model, strategy implementation plan and control.

IDM 4401	Technology and Innovation Management	3 Credits
Prerequisite:	IDM 4203 Quality Management	

Technology introduction process, research and development control and management, technological change and company's manufacturing strategy, product/process/technology life cycle, innovation process generation and implementation.

IDM 4501	Seminar in Industrial Management	3 credits
Prerequisite:	Senior Standing (Industrial Management Major)	
or	Approval of the Lecturer	

Current industrial conditions, problems, and solutions, class discussion, business exposure, guest speaker, research and presentation.

IE 1110	Engineering Materials		3 credits
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Study of relationship between structures, properties, production processes and applications of main groups of engineering materials i.e. metals, polymers, ceramics and composites, phase equilibrium diagrams and their interpretation, mechanical properties and materials degradation.

IE 4100	Manufacturing Processes	3 Credits
Prerequisite:	IE 1110 Engineering Material	

Theory and concept of manufacturing processes such as casting, forming, machining and welding; material and manufacturing processes relationships; fundamental of manufacturing cost.

IE 4101	Manufacturing and Information Technology	3 credits
Prerequisite:	Senior Standing	

Basics of CAD/CAM; CAD modeling methods; Computer Aided Manufacturing, solid modeling; materials properties and fundamentals of Automation; Automation technology; Flexible manufacturing systems, knowledge based engineering; robotics technology; machine tools technology.

IE 4201	Engineering Management	3 Credits
Prerequisite:	Completion of 90 Credits with the consent of the Chairperson	

Modern management principles, methods of increasing productivity, human relation, industrial safety, commercial laws, basic of engineering economy, finance, marketing, project management.

IE 4203 Prerequisite:	Engineering Economics Completion of 90 Credits	3 Credits
Methods of comparison, de	epreciation, evaluation of replacement, risk and uncertainty, estimatin lecision making for investment of challenging projects.	g of income, tax
IN 2202 Prerequisite:	Interior Architectural Design I AR 1104 Fundamental of Architectural Design	6 Credits
Integration of artistic sensi	bility, creativity, and the understanding of human factors through bandlividual concept, analysis of human relations to space, and a practica	
IN 2204 Prerequisite:	Interior Architectural Design II IN 2202 Interior Architectural Design I	6 Credits
Practices on small scaled, r	nore complex, multi-users programs, student's hand-drawing and draft model for conceptual and professional communication.	ing skills, includ-
IN 2305	Interior Architectural Design Methods	3 Credits
Design activity and its inhe	erited methods, influential design methods to broaden students' persp e qualified interior architectural design.	ective of how to
IN 2306 Prerequisite:	History of Interior Architecture AR 2106 History of Architecture I	3 Credits
History and the evolution of	of space planning, interior architecture, decorative details, and furniture th century in Europe, styles and characteristics of each period as a re	
IN 3200	Theory and Concept in Interior Architecture	3 Credits
Significant theories of archit History from the 15th cent	ecture as well as interior architecture as a discipline, the development ury to the early 20th century, reviewing the ideas, philosophies, con- lectures and discussion based on analysis of interior architectural space an	cepts and design
IN 3203	Interior Architectural Design III	6 Credits
Prerequisite:	IN 2204 Interior Architectural Design II	
	r activity, scale, and the use of materials in small scale commercial sp relation to interior environment.	ace, graphic de-
IN 3207 Prerequisite:	Interior Architectural Design IV IN 3203 Interior Architectural Design III	6 Credits
	ness, and hospitality spaces design, human interactions and commun Iding conditions, new trends and details of furniture finishing materials a rel in design	
IN 3301	Interior Construction Technology I	3 Credits
Basic consideration namely	human ecology, which includes anthropometric and ergonomic prin s and finishes and typical details which include skeleton structure of t d staircase.	
IN 3303	Interior Construction Technology II	3 Credits
Prerequisite:	IN 3301 Interior Construction Technology I	
eton structures and modern	hods that relate to complex volumes of interior space, which include (n material and installation techniques, framed structure of regular and on of finishing material namely wood, metal plastic and glass focusing	raised floors with

eton structures and modern material and installation techniques, framed structure of regular and raised floors with various aspects of installation of finishing material namely wood, metal, plastic and glass, focusing on interior architecture working drawing following specifications and construction documents.

IN 3304	Lighting Design	3 Credits
law, reading and using catalo ing design, including the phy	g design decisions, including properties of materials as they relate t ogs, documentation, and health effects of light, technical and practic sics of light, lab technology, the use and design of natural and artifici nderstanding of the culture and historical implications of light, applicat	al aspects of light- al light throughout
IN 3305	Furniture Design	3 Credits
Specific proponents, movemerevolution to contemporary	ents and conceptual approaches relevant to key furniture designers period, forms development, design process, aesthetics quality, fashio o encourage students to emerge in-class knowledge and their creativ ctical design.	on and trend. Cre-
IN 3306	Interior Material Application	3 Credits
Systematic approach to sele	ecting essential interior design elements, color and materials: types s well as awareness of ecological problems, sustainability, and suge	and the second
IN 4102	Methods of Research and Data Processing	3 Credits
Processes of selecting and p	preparing materials for research, learning to recognize, collect data I design research to achieve effective design solution.	and analyze case
IN 4203 Prerequisite:	Interior Architectural Design V IN 3207 Interior Architectural Design IV	6 Credits
	n critical observation and experiment to create design concept for la , the balance between visionary concept and practical solution, awa esign.	-
IN 4205 Prerequisite:	Interior Architectural Design VI IN 4203 Interior Architectural Design V	6 Credits
Commercial and institutiona understanding and concern of	l designs, projects which are structured to complex programs with of the assigned building condition, architectural and social contexts, h es opportunity for collaborative team working experience.	
IN 4304	Practicum in Interior Architecture (240 Hours)	Non-credit
A 240 working hour profession	onal training at an interior architecture firm in order to expose stude wledge in the real interior architecture business world.	ents to all kinds of
IN 4305	Seminar in Interior Architecture	3 Credits
	gn from the past to present, academic and practical thinking, obst their solutions.	acles and setbacks
IN 4306 Prerequisite:	Furniture Production Methods IN 3305 Furniture Design	3 Credits
Process of making furniture, lectures, demonstrations and	scale, proportion, basic joinery, materials selection, and assembly te field trips and making of full-scale piece of furniture, students are approaches to creative problem solving.	
IN 5200	Pre-Thesis in Interior Architecture	3 Credits
Independent study on interior collects the analytical information	or architectural issue and program based on student's individual inter- ation on the chosen existing building and study context, case study, s cial to his/her topic. The student is required to work consistently und hout the semester.	pecific user behav-

IN 5205 Prerequisites:	Thesis in Interior Architecture IN 5200 Pre-Thesis in Interior Architecture IN 5203 Interior Architectural Design VII	9 Credits
A student self-initiate	ed design project under the thesis advisor supervision which inve ing and analyzing project condition, case studies, user behaviors before	
IN 5300	Professional Ethics and Practices	3 Credits
Ethical conduct of the understanding fire pr	he professionals in the field, relationship between client and desi rotection material regulation in building laws, study building law wl d contracts, and work supervision.	
IN 5400	Elements of Thai Architecture	3 Credits
Different elements o spaces of Thai tradit	f Thai architecture as in building bodies, roofs and structures, and tional architecture, conducting research on Thai design, architectu Ily to use in interior design.	
IN 5401	Interior Architecture Cost Estimation and Control	3 Credits
Budgeting and cost e	estimating of a finished interior by making quality survey of materia practice of cost controlling within a given budget, payment and penalty	
IN 5403	Advanced Computer - Aided Design	3 Credits
Advanced study of context, r	omputer aided design and the primary introduction to the creatior narrative, computation, and interactivity. Students have to develop t for exploration, experimentation, and methodologies.	
IN 5404	Individual Study in Interior Architecture	3 Credits
	individual's interests pertaining to interior architecture under the appr	oval of an advisor.
IN 5411	Advanced Lighting	3 Credits
Advanced theoretical	lighting, color and illumination practical functions and aesthetic set sign in different scale and perspective which site excursion and semination	
IN 5413	Facilities Management	3 Credits
Forecasting the feasib	bility of a project by familiarizing with financial forecasting and budg nce and operations management, and forecasting risks.	geting, architectural planning
IN 5415	Fabric Design and Applications	3 Credits
Principles of fabric d	lesign and applications, technical language associated with qualitie apply in interior design.	es of fabric, texture, pattern
IN 5416	Introduction to Exhibition Design	3 Credits
Introduction to exhib ing from programs, s	ition design, strategies in designing for exhibitions and trade show space design, conceptual development of a thematic approach, and artifacts, or artwork activities as business practices specific to the	d creation of a presentation
	effective use of computer renderings and presentation skills.	

Aesthetic appreciation, diverse branches of arts at differential periods, conceptual idea of imaginative interpretation, imitation of nature and also environment which urges inspiration to influence the artists' philosophical life and his vision, materials and process of creation, including history of arts which can be applied in the subjects of design. Student will gain experiences from out-door study as extra lecture on visiting art gallery and art exhibition.

IND 1101	Visual Design	3 Credits
Visual language, basic des	sign elements, and design composition used in conveying desired me is on actual application through a series of corresponding projects.	essages of 2dimen-
IND 1102	Introduction to Design Culture and Trend	3 Credits
Contemporary issues in de	esign within the context of creative culture that aims to promote an rks through an investigation of the development, role, and influences c	
IND 1301	Basic Drawing	3 Credits
Methods of drawing used	in architecture and design profession i.e. orthographic projection, persiving technique in pencil and ink.	pective projection,
IND 1302	Design Fundamentals	3 Credits
	omponents and the basic design relationship between forms and function ral design.	on in order to fulfill
IND 1303	Computer Applications for Interior Design	3 Credits
Computer as a tool in ass	isting design process, drafting, and presentation through practicing of d basic 3 dimensional modeling application	computer applica-
IND 2101	Design Methods	3 Credits
Design activity and its inh	erited methods through an exploration of influential design methods sent in order to provide a broad perspective of plausible design strategies.	from the period of
IND 2102	Human Factors	3 Credits
Physical, psychological, an relationships to their surrouted the surrouted by the surrouted	d social interaction aspects related to humans especially in capabilitie oundings such as anthropometry, sensation and perception, ergonon g for health, safety and comfort.	
IND 2201 Prerequisite:	Interior Design I IND 1302 Design Fundamentals	6 Credits
Vital understanding of hu	man-spatial relationship through investigations and analyses of users' olumetric interior space via small scale residential projects ranging fro	
IND 2202 Prerequisite:	Interior Design II IND 2201 Interior Design I	6 Credits
Exploration of more compl involve multiple users and	ex programming both in functions as well as in users' requirements the l conjoining of different functions, with emphasis on design concept dards through more rigorous project drawing requirements.	
IND 2301	History of Interior Design	3 Credits
rative details, and furniture	bugh chronological exploration of the evolution of space planning, int e design from ancient Egypt to the 19th century in Europe with empl d as a reference to future developments.	2
IND 2302	Building Construction	3 Credits
Basic knowledge on comp	onents of small building, standard timber construction-skeleton structu ase and its material such as timber, masonry, concrete through studio work	

Basic knowledge of furniture design and furniture production including, history and their implement culture, furniture component, ergonomics, design trend, conceptual and aesthetic approaches, and form development process, occupation of existing tool and technique to produce innovative and practical furniture design, exploration of fabrication technology through lecture including, system, structure, and material selections in modular furniture, prefabricated furniture, portable partition, prefabricated low raised floor. 3 Credits IND 3101 Theory and Concept in Design Significant design theories and concepts that have led to effective designs in order to provide an understanding in concept derivation as well as insights for critical analysis of current design trends and trend forecasting. The theories include: Design Semiotics, Phenomenology, Design Hermeneutics, Functionalism, Rationalism, Environmentalism, and Critical Theory. IND 3102 3 Credits Design Research and Development Essential knowledge in how to conduct design-based research that yields balancing results in interior design innovation, ease of manufacturing, and profitability through understanding of the liaison between business market research and interior design research. IND 3201 Interior Design III 6 Credits Prerequisite: IND 2202 Interior Design II Exploration of commercial interior design and its intrinsic components including activities, human perception, human behavior in public realms, materials and fabrications in public spaces, environmental graphic design, as well as rules and regulations in public spaces through small-scale commercial interior design projects. 6 Credits IND 3202 Interior Design IV Prerequisite: IND 3202 Interior Design IV Exploration of more complex commercial and hospitality interior design, which includes established and emerging theories and design principles, material fabrications and lighting technology, interior design codes, and constraints and conditions of involved building. IND 3301 Interior Construction 3 Credits Basic interior construction through construction methods, typical interior finishes, details and material uses based on consideration of human ecology, anthropometric and ergonomic principles. Interior Material and Technology IND 3302 3 Credits _____ Systematic approach in variety of material selections and factors including interior design elements, colors, material and applications, ecological material, and new innovative material. Experiment in the alternated creative possibility in composing variety of color schemes, material presentation board. 3 Credits IND 3303 **Building System Study** Basic factors about building systems which interior designers need to understand and co-operate the project sufficiency with the other parties in the design team, information of each different type of small building which is related to interior design process such as; structure system, mechanical system, electrical system, sanitary system, air conditioning system, security system, audio visual system, and etc. Interior Design Proposal and Marketing IND 3304 3 Credits _____ Fundamental knowledge of making the proposal for interior design project both residential and public project including, preparation of documents, written format, categories and contents, evaluation and analysis of market demand, scope of design works, scope of design services, estimated budget, work schedule forecast, necessary preliminary design, fee calculation and cash flow, design contract, and effective communication and presentation skills. Practicum in Interior Design 2 Credits IND 3305

Furniture Production and Fabrication Technology

3 Credits

IND 2303

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A 240 working hours in professional training at interior design firm to expose students to all kinds of professional experiences in the real sector of interior design business.

IND 2205		
IND 3306	Lighting Design	3 Credits
physics of light, lab tec	y and its implement culture, lighting components, aesthetic sensi- hnology, codes and law, reading and using light catalogs, practical a concern throughout various kinds of experimental project.	
IND 4201 Prerequisite:	Interior Design V IND 3202 Interior Design IV	6 Credits
Advanced study in inte vironmental site consid large scale commercial	rior design, which includes critical analyses of design environment, erations in order to initiate corresponding design programming and and institutional projects. This course also provides an opportu sing on increasing project feasibility.	design execution through
IND 4202 Prerequisite:	Senior Project IND 4201 Interior Design V	6 Credits
Individual study of well ing design trends, socia	l-contemplated design project through analyses of design environme al-cultural context, and environmental concerns resulting in a viable x prototype interior design project of appropriate function, aesthetic, so	business plan and design
IND 4301	Design Management	3 Credits
Project management sl	kills and the process of organizing and controlling the interior designme, cost, procurement, and risk awareness in order to meet client?	
IND 4302	Individual Study in Interior Design	3 Credits
	earch on the topic of interest pertaining to interior design.	
IND 4303	Professional Ethics and Practice	3 Credits
Ethical conduct on pre	ofessional interior design including, client's brief, service offered, t types, contract documents, tender process, site inspection, license and	
IND 4401	Seminar in Interior Design	3 Credits
Design environmental t design, design-related The approach will be t	opics or events that are in trend including, interior design, fine arts, business management, entrepreneurship in interior design business opics analysis in class and special lectures from guest lecturers in ther public or private universities, representatives from design enterpris	and other related fields specialized area from the
IND 4402	Advanced Computer-Aided Design	3 Credits
Advanced study of con of interior design stud	nputer-aided design including all necessary update software to enha ents, interior space for exploration, experimentation, methodologies utation, and interactivity.	
IND 4403	Model Making and 3D Exploration	3 Credits
Elementary concepts, to texture, form, scale, vo	ools and material of sculpturing and crafting by hand skills, training lume, 3D and spatial visualization, various media and techniques o upon aesthetic form and conceptual development of personal skills.	
IND 4404	Home Textile and Soft Furnishing	3 Credits
Variety of types, colors ance, and other factors	i, texture, and pattern of the home textile, alternated creative pos- including strength, durability, performance, and maintenance, the ra noosing textile to properly fit the certain usage for all required interior d	inge of textile available in
IND 4405	Thai Architecture Study	3 Credits
Thai architecture and c tifs, and functions which	rname a contracture study	ace, form, decorated m

applied to the Thai contemporary interior design without losing the mainstream of Thai characteristics.

IND 4406	Advanced Lighting	3 Credits
Theoretical lighting, color, and drawing for lighting design	nd illumination for interior design, practical functions, aesthetic sense, to session which is needed to be combined into interior design works, li- le and type, professional presentation technique for the lighting design o provided.	ghting design in
IND 4407	Decorative Art	3 Credits
Variety of decorative art rela aesthetic appreciation, conce	ited to interior design that has emerged throughout the history, percep eptual idea of imaginative interpretation, critical thinking of the artist's p nique, and cultural influence to the art.	
INS 3101	Principles of Risk Management and Insurance	3 Credits
Concepts of risk, terminolog handling risk, principles that	ies used in risk management and insurance, risk management process underline the field of insurance, various types of insurance contracts, s mment insurance, nature and operator of the insurance business.	
INS 3102 Prerequisite:	Insurance Law BG 1400 Business Law I	3 Credits
Insurance law and Ministeria	al Regulations of the Kingdom pertaining to the contract of insurance ortation, and liability court interpretation on applicable coverage, compa	
INS 3201 Prerequisite:	Property Insurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Analysis of an insurance con ness firm in general, major	tract and measurement of property and net income loss exposures of insurance policies and extension available in the Thai market, fire insu iness interruption insurance, motor insurance, ocean and inland marin ince for business firm.	rance and allied
INS 3202 Prerequisite:	Casualty Insurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Analysis of source of legal insurance coverage designer fidelity guarantee insurance	liability, major sources of liability loss exposures of both family and bi d to meet those loss exposures, personal liability insurance, public lia , workers' compensation employer's liability insurance, professional lia , rety bond, and a variety of miscellaneous liability insurance.	ability insurance,
INS 3203 Prerequisite:	Engineering Insurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Analysis and measurement of including contractor's all ris	of property loss exposures of the business firm, major insurance policie ks insurance, erection all risks insurance, machinery breakdown insura consequential loss following machinery breakdown, computer all risks	ance, boiler and
INS 3301 Prerequisite:	Principles of Life Assurance INS 3101 Principles of Risk Management and Insurance	3 Credits
Features of life insurance in	dustry, life insurance contract, life insurance policy, life insurance produce produce policy provisions, policy ownership rights, paying life insurance police	
INS 4103 Prerequisites:	Insurance Marketing INS 3101 Principles of Risk Management and Insurance MKT 2280 Principles of Marketing	3 Credits
Marketing principles and fur	actions of marketing as an integral aspect of major branches of insuran	co inductry with

Marketing principles and functions of marketing as an integral aspect of major branches of insurance industry with emphasis on sales, promotion, product developments, distribution channels, customer relationship as well as other relevant topics.

Nature and functions of reinsurance, main types of insurers and reinsurer, legal principles and outline of the international reinsurance market, facultative, and treaty for both proportional and excess of loss reinsurance, including accounts, premium and loss reserves including reinsurance audits.

INS 4105 Prerequisite:	Seminar in Insurance Senior Standing	3 Credits
Comprehensive review of topics which are relevant	all aspects of risk and insurance, various cases of operations to professional goals and interest of students and current issues in a discussion, and presentation.	
INS 4106 Prerequisites:	Information Management in Insurance INS 3101 Principles of Risk Management and Insurance BIS 2180 Information Technology	3 Credits
to policy control, commis	es used in pertinent functions in all branches of insurance, spec ssion, premiums, renewals, branch/broker control and costing, cos echnologies such as internet and World Wide Web.	And a state of the
INS 4203 Prerequisite:	Marine and Aviation Insurance INS 3101 Principles of Risk Management and Insurance	3 Credits
clauses A., B., C., war risk	modes of transportation and from aspects of loss, damage, and l , strike, commodity trades, and other clauses, principles of interest es, hull Insurance and aviation insurance.	
INS 4204 Prerequisites:	Property and Casualty Insurance Accounting and Finance INS 3101 Principles of Risk Management and Insurance	3 Credits

Analysis of insurance accounting and financial statements of the non life insurance company, valuation of insurance company asset, revenues, expenses, liabilities and policyholders' surplus, interpretation of basic financial statements, and Solvency Surveillance.

ACT 1600 Fundamentals of Financial Accounting

INS 4205	Survey and Claim Management in Property and	
	Casualty Insurance	3 Credits
Prerequisites:	INS 3201 Property Insurance	
	INS 3202 Casualty Insurance	

Analysis of the roles and duties of the claim representative, human relations in claim, communication skill, listening skill, claim management, claim professionalism, negotiation process and styles, application of claims practice to transacting insurance business on an industry wide basis, pre-insurance survey and post -loss survey, loss-adjust-ment techniques using policy wording in each class of business.

INS 4206	Essentials of Risk Management	3 Credits
Prerequisite:	INS 3101 Principles of Risk Management and Insurance	

Losses, loss exposures on both personal and business firm and risk management process, risk management techniques, risk financing and risk control, role of the risk manager in an organization, pre and post loss objective, current issues regarding risk management, medical expense benefit, disability benefit, theory of group insurance, master contract and certificate, various aspects and clauses under group insurance contract including marketing and distribution of group insurance and evaluation of current trends.

INS 4207	Insurance Management	3 Credits
Prerequisites:	INS 3101 Principles of Risk Management and Insurance	
	MGT 2900 Principle of Management	

Structure and operation of insurance companies and broking companies incorporated in Thailand, managerial practices and problems in insurance companies and broking companies, all main functions and assessment of market needs for both organizations.

INS 4208		
Prerequisite:	Internship in Property and Casualty Insurance (240 Hours) Consent of Department Chairperson	3 Credits
Students will spend 8 weel business organization. The	ks (30 hours/week) internship with selected property and case internship will focus mainly on insurance operations of such students will be evaluated by their supervisor and submit a deta	organization. Upon com-
INS 4209 Prerequisite:	Directed Studies in Property and Casualty Insurance Consent of Department Chairperson	3 Credits
Under the guidance of the	department chairperson, a student must carry out an approved The depth and innovativeness of the research will determine the cr	
INS 4210 Prerequisites:	Risk Control and Risk Financing INS 3101 Principles of Risk Management and Insurance INS 4206 Essential of Risk Management	3 Credits
Two steps of risk manageme	ent process (1) implementing the selected risk management teo ontrol and coordination of the organization's total risk managemen	
INS 4302 Prerequisite:	Accident, Group and Health Insurance INS 3301 Principles of Life Assurance	3 Credits
Analysis and measurement extension of personal accid of group insurance, master	of personal loss exposure in respect of family and business firr lent insurance, health insurance for medical expense benefit, contract and certificate, various aspects and clauses under ribution of group insurance and evaluation of current trends.	disability benefit, theory
INS 4303 Prerequisite:	Life Assurance Underwriting INS 3301 Principles of Life Assurance	3 Credits
Prerequisite: Elementary physiology and	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects	and process of life insur-
Prerequisite: Elementary physiology and ance underwriting, underw	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects	and process of life insur-
Prerequisite: Elementary physiology and ance underwriting, underw diseases and physiological m INS 4304 Prerequisite: Concepts of life table, prob	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects alfunctions. Life Assurance Mathematics	and process of life insur- relating to impairments, 3 Credits g, analysis of components
Prerequisite: Elementary physiology and ance underwriting, underw diseases and physiological m INS 4304 Prerequisite: Concepts of life table, prob and essential factors of prem INS 4305 Prerequisite:	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects alfunctions. Life Assurance Mathematics INS 3301 Principles of Life Assurance ability of death and survival, fundamentals of premium rating ium rate calculation, reserve calculation and various types of reserv Claim Management in Life Assurance INS 3301 Principles of Life Assurance	and process of life insur- relating to impairments, 3 Credits g, analysis of components
Prerequisite: Elementary physiology and ance underwriting, underw diseases and physiological m INS 4304 Prerequisite: Concepts of life table, prob and essential factors of prem INS 4305 Prerequisite: Administrative aspects of pa renders and partial surrend	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects alfunctions. Life Assurance Mathematics INS 3301 Principles of Life Assurance ability of death and survival, fundamentals of premium rating ium rate calculation, reserve calculation and various types of reserv Claim Management in Life Assurance	and process of life insur- relating to impairments, 3 Credits g, analysis of components ve in life insurance. 3 Credits nd annuity payments, sur-
Prerequisite: Elementary physiology and ance underwriting, underw diseases and physiological m INS 4304 Prerequisite: Concepts of life table, prob and essential factors of prem INS 4305 Prerequisite: Administrative aspects of pa renders and partial surrend	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects alfunctions. Life Assurance Mathematics INS 3301 Principles of Life Assurance mability of death and survival, fundamentals of premium rating ium rate calculation, reserve calculation and various types of reserve Claim Management in Life Assurance INS 3301 Principles of Life Assurance ayments with respect to death and disability claims, maturity ar ers of policies, loans on policy and dividends, claim decision	and process of life insur- relating to impairments, 3 Credits g, analysis of components ve in life insurance. 3 Credits nd annuity payments, sur-
Prerequisite: Elementary physiology and ance underwriting, underw diseases and physiological m INS 4304 Prerequisite: Concepts of life table, prob and essential factors of prem INS 4305 Prerequisite: Administrative aspects of parenders and partial surrend for life insurance and suppler INS 4306 Prerequisites: Introduction to financial pi health insurance and social of social security benefits, a comprehensive financial pi	INS 3301 Principles of Life Assurance anatomy, proposals and medical report forms, main concept riting method, underwriting factors and underwriting aspects alfunctions. Life Assurance Mathematics INS 3301 Principles of Life Assurance mability of death and survival, fundamentals of premium rating ium rate calculation, reserve calculation and various types of reserve Claim Management in Life Assurance INS 3301 Principles of Life Assurance ayments with respect to death and disability claims, maturity ar ers of policies, loans on policy and dividends, claim decision nentary benefits, and paying life insurance claims. Life Assurance and Financial Planning INS 3301 Principles of Life Assurance	and process of life insur- relating to impairments, 3 Credits 9, analysis of components ve in life insurance. 3 Credits and annuity payments, sur- process, analyzing claims 3 Credits insurance, life annuities, together with integration nce and investments into

Life insurance agency office management concepts, agency organization and structure, ways to improve communication and workflow between insurer and agency offices, ways to organize agency office to maximize efficiency and to provide more effective sales support for agency force, office productivity, agency expenses and budgetary control, compliance and sales practices, supervisory skills, people management techniques and agency office automation. Managing for Solvency and Profitability in Life Assurance INS 3301 Principles of Life Assurance FIN 2700 Money, Banking and Financial Markets 3 Credits

3 Credits

3 Credits

Solvency, liquidity and profitability of life insurance companies, with emphasis on financial management of insurance company, how life insurance companies pursue the key financial objectives, insurance financial statement analysis, product planning, product design and pricing for insurance company product, concept of how insurance company executives approach capital management and monitor the financial performance of Life Insurance Company.

INS 4309	Internship in Life Assurance (240 Hours)	3 Credits
Prerequisite:	Consent of Department Chairperson	

Students will spend 8 weeks (40 hours/week) internship with selected life assurance or related business organizations. The internship will focus mainly on insurance operations of such organizations. Upon completion of the program, the students will be evaluated by their supervisor and submit a detail report of the knowledge gained.

INS 4310	Directed Studies in Life Assurance	3 Credits
Prerequisite:	Consent of Department Chairperson	

Under the guidance of the Department advisor, a student must conduct a research in an approved area of life assurance. The depth and innovativeness of the research will determine the credits given.

IT 2130 S

Systems Science

Basics of systems (its inputs, outputs and environment, and its behavioral characteristics), general system theory, classification of systems, hierarchy of systems, and adaptability of system, various approaches to system thinking such as cybernetic, cybernetic principles and applications, system dynamics, operation research, and systems analysis.

IT 2172	Programming Workshop	4 Credits
Prerequisite:	SC 1101 Computer Programming I	

Further development of practical problem solving and programming concepts and skills developed in SC1101, using object-oriented concepts and the C++ language

IT 2210	File Structures and Processing	3 Credits
Prerequisite:	IT 2172 Programming Workshop	
or	SC 2101 Computer Programming II	

File structures, file organizations, basic data structures for file organizations and management, different file organizations and accessing methods such as sequential file, relative file, indexed file, and multi-key file, programming in Pascal or C.

IT 2220	Computer System Concepts	3 Credits
Prerequisite:	IT 2231 Introduction to Information Technology	

Computer system organization, internal data representation, computer operations, overview of computer system configuration (CPU, memory unit, I/O unit), fundamentals of operating systems e.g. compiling, linking, loading, and executing program instructions, instruction cycle, basic instruction set, elements of instructions, and addressing modes.

IT 2230	Information Structures
Prerequisite:	IT 2172 Programming Workshop

Various types of data structures (primitive, simple, structured, linear, and nonlinear data types), applications developed under aforementioned data structures, tradeoffs and criteria for selecting the appropriate data structure, searching and sorting techniques.

IT 2231	Introduction t	o Information Tech	nology		3 Credits
Various types of inform	nation technology, effe	ect of information	technology on	the information sy	stems, computer op-

Various types of information technology, effect of information technology on the information systems, computer operations, communication systems, information processing, input/output devices, processors, storage and retrieval techniques, communication technology, and applications of current technology in information systems. Widely used commercial object-oriented programming language Java, development of basic object-oriented concepts and skills, design and coding of application programs in the environment of the Java language.

IT 3210 Prerequisite:	Database Management Systems IT 2230 Information Structures	3 Credits		
Data structure, principles of database, database system, database management system, application of database in information systems.				
IT 3211 Prerequisite:	Information Storage and Retrieval IT 3210 Database Management Systems	3 Credits		
	information systems, data files in computer systems, inverting files, tion systems.	analysis of the		
IT 3230 Prerequisite:	Management Information Systems IT 2231 Introduction to Information Technology	3 Credits		
Role of information systems ment information systems, r	that affect decision making and organization, characteristics and structunanagement and decision-making styles, information systems and org cations and other trends of information systems.			
IT 3231 Prerequisite:	Information Systems Analysis IT 2231 Information Technology	3 Credits		
System development life cyc	cle, analysis of system's requirements, information requirements for mai alyze an information system and determine system's requirements, m it.			
IT 3232 Prerequisite:	Information Systems Design IT 3231 Information Systems Analysis	3 Credits		
Design techniques for inform	nation systems, I/O design, processing design, control design, file and c nentation phases and procedures, and system maintenance and review.	latabase design,		
IT 3253 Prerequisite:	Data Communication and Networking IT 2231 Information Technology	3 Credits		
Different network types, various network media and topologies, functions of each layer of the ISO-OSI model, various alternatives in interconnecting networks such as routers, switches, bridges, and gateways, fundamental concepts of data communication, transmission media, computer and data equipment interfaced and interconnected, valid information transfer, security issue, cost effectiveness of data communication.				
IT 3351 Prerequisite:	Web Design and Development I IT 2172 Programming Workshop	3 Credits		
Web-based design and development, the internet, the worldwide web, HTML fundamentals, images and multimedia, page and site design issues, modern web development technologies, (e.g. ASP.NET), user interface and development environments.				
IT 3352 Prerequisite:	Database Application Workshop Senior Students and by the consent of the instructor	3 Credits		
Workshop to develop multiple-form applications, organize and manage them across modules, concepts of building forms and reports, development of current applications with custom menus, reports, and charts, advantages and disadvantages of various forms and report methods, retrieve and display data through appropriate use of forms and reports using Oracle Developer 2000.				
IT 3371 Prerequisite:	Object Oriented Programming II IT 2371 Object Oriented Programming I	3 Credits		

Extension of concepts and skills developed in IT 2371, practical skills and ability to design and implement application programs, using advanced features of the Java programming language.

IT 3372 Prerequisite:	Visual Programming IT 2172 Programming Workshop	3 Credits
	amming concepts, tools and techniques, use of visual programming for lications.	the rapid devel-
IT 4299 Prerequisite:	Senior Project The fourth-year students with at least 100 Credits	3 Credits
Specific project which required define the solution, and des	ires students to design and develop a real information system, analy ign the system by applying information technology concepts, The instru- ect development. The students will have an oral examination on their project	actors will advise
IT 4311 Prerequisite:	Introduction to Computer Graphics IT 2172 Programming Workshop	3 Credits
Foundations of computer g	raphics, characteristics of computer graphics on graphic monitors, co nics, techniques for creating animation, use of a sophisticated languagi ic design.	
IT 4314 Prerequisite:	Software Engineering Concepts IT 3232 Information System Design	3 Credits
Software life cycle, analysis	of requirements, structured software design, development, implementat eusable software, documentation and software manuals, and software	ion, testing, and project manage-
IT 4315 Prerequisite:	Object Oriented Software Analysis and Design IT 3232 Information System Design	3 Credits
Object-oriented software de	velopment paradigm, basic knowledge to embark on an object-oriented nodeling approach for describing object-oriented system design.	l software devel-
IT 4316 Prerequisite:	Image Processing IT 2172 Programming Workshop	3 Credits
Concepts of image processir	ng including digital image, image viewing, encoding images for memory processing, analysis of images.	storage, retriev-
IT 4340 Prerequisite:	Introduction to Information Resource Management IT 2231 Information Technology	3 Credits
Management of information	resources and database, design acquisition, implementation and mana ic approach to information resource management.	gement of com-
IT 4357 Prerequisite:	Human Computer Interaction Senior Students and by consent of instructor	3 Credits
Basic knowledge about hur	man behavior, interaction between humans and computers, overview mputer interaction, design of computer interfaces to fit with the conce ess.	
IT 4358 Prerequisite:	Expert Systems Senior Students and by the consent of the instructor	3 Credits
	systems including techniques used to develop and implement expert s nod.	ystems with the
IT 4359 Prerequisite:	E-Commerce Senior Students and by the consent of the instructor	3 Credits
Various components that s	hape e-commerce systems, components, inherent technologies, pertin gement strategies for business-to-business, business-to-consumer, int	

Various components that shape e-commerce systems, components, inherent technologies, pertinent design and development issues, management strategies for business-to-business, business-to-consumer, intra-business domains, information appliances, computing networks, application and service repositories, application access infrastructure, systems security, implementation risks. Basic ideas, theory, practical uses of multimedia for presenting and conveying information, windows and multimedia, sound recording, image processing, animation, electronic composing, multimedia databases, virtual reality and cyber-space, overview of multimedia products.

3 Credits

TS 4261	Internetworking Workshop I	4 Credits		
Fundamentals of internetworking connectivity concepts, components and protocols (i.e. flow control protocols, error checking mechanisms, and routing protocols), data encapsulation, network addressing, Local Area Network (LAN) technologies, basic LAN design and implementation, and basic network devices configurations.				
TS 4262 Prerequisite:	Internetworking Workshop II TS 4261 Internetworking Workshop I	4 Credits		
Design and implementation cepts, protocols, features and	of small to medium size Local Area Networks (LANs) emphasizing LAN I technologies and LAN switch configuration, introduction to Wide Area protocols, design and implementation, hands-on experiences in adding etwork services.	Network (WAN)		
IT 4363 Prerequisite:	Information System Security and Auditing Senior Students and by the consent of the instructor	3 Credits		
Fundamentals of computer s works and telecommunication	ecurity including hardware security, software security, database security on security, physical protection and microcomputer security and viruse and contingency planning, intrusion detection and other applications, l	s, cryptographic		
IT 4366 Prerequisite:	Advanced Data Management Systems IT 3210 Database Management System	3 Credits		
Relational database model,	data storage and management object-relational and object-oriented cessing, data marts, data warehousing, WWW database applications			
IT 4367 Prerequisite:	Web Design and Development II IT 3351 Web Design and Development I	3 Credits		
Advanced topics on developing web application including using XML to extend web capabilities, creating and us- ing web service, application configuration, tuning up performance, application deployment and security issues, advanced topics on database such as using store procedure, persisting data with XML, standard web application architectures such as e-commerce, portal site, community site.				
IT 4400-99 Prerequisite:	Selected Topic The fourth-year students and by the consent of the instructor	3 Credits		
Special topics that is appropriate for detailed study and research. The topic selected depends on the student's need and the instructors' requirements and is in accordance with the current change of information technology in that period.				
JA 0721	Japanese for Beginners I	3 Credits		
Japanese pronunciation, vocabulary and some basic sentences patterns focusing on the skills of listening and speaking in everyday Japanese language				
JA 0722 Prerequisite:	Japanese for Beginners II JA 0721 Japanese for Beginners I or by the consent of the instructor	3 Credits		
	Vocabulary, more basic sentence patterns to develop the skills of listening and speaking			
JA 0723	Reading and Writing Japanese Scripts	3 Credits		

Japanese scripts-Hiragana and Katakana, 50 basic kanji, greetings, and basic sentence patterns used in daily Japanese conversation

JA 1700	Introduction to Japanese	3 Credits
Basics of Japanese language ing.	e, scripts, Japanese sound system, basic grammar and practice of liste	ening, and speak-
JA 1701 Prerequisite:	Japanese I JA 1700 Introduction to Japanese	3 Credits
	llary of daily usage and further development of skills in listening, unde	erstanding, speak-
JA 2701 Prerequisite:	Japanese II JA 1701 Japanese I	3 Credits
	speaking, writing and reading, higher level of grammatical structures a I skills.	and proficiency in
JA 2702 Prerequisite:	Japanese III JA 2701 Japanese II	3 Credits
Further acquisition on Japar	nese grammar, vocabulary, oral expression and reading drills of origina culture, and intensive practice on writing and comprehension skills.	l texts from vari-
JA 2703 Prerequisite:	Basic Reading and Writing I JA 1701 Japanese I	3 Credits
	iting, reading simple texts, types of sentences, and practice in writing t	opics of everyday
JA 2704 Prerequisite:	Basic Reading and Writing II JA 2703 Basic Reading and Writing I	3 Credits
Reading and writing more cor	nplicated texts and topics.	
JA 3701 Prerequisite:	Intermediate Japanese Grammar JA 2702 Japanese III	3 Credits
	ructures and vocabulary for listening, speaking, reading and writing r	nore complicated
JA 3702 Prerequisite:	Business Japanese I JA 2702 Japanese III	3 Credits
Integrated skills of listening, s	peaking reading, and writing in business contexts	
JA 3704 Prerequisite:	Oral Comprehension and Expression JA 2702 Japanese III	3 Credits
Reading, outlining and sum	marizing oral and written texts related to business and various fields aring comprehension, discussion and versed expression of opinions	of Japanese Cul-
JA 3721 Prerequisite:	Introduction to Japanese Linguistics JA 2702 Japanese III	3 Credits
	ems of the Japanese language, special features of the language, phon plete grammatical analysis	etics, phonemics,
JA 3722 Prerequisite:	Japanese Reading and Oral Report JA 2702 Japanese III	3 Credits
	s of various Japanese articles and summarizing through oral presentations	
JA 3723 Prerequisite:	Introduction to Japanese Phonetics JA 2701 Japanese II GL 1101 Elements of Spoken Language	3 Credits

Accurate Japanese pronunciation, and Japanese phonological system and intensive practice on the articulation of various Japanese sounds

JA 3724 Prerequisite:	Aspects of Japan JA 2701 Japanese II	3 Credits	
	tterns, civilization and interdisciplinary studies about Japan		
JA 3725 Prerequisite:	Japanese for Secretaries JA 2702 Japanese III or by the consent of the instructor	3 Credits	
Skills and correctness in hea	aring, speaking, reading and writing of the Japanese language accordi rechniques of business communication, practice of composing many		
JA 3726 Prerequisite:	Japanese for Tourism JA 2702 Japanese III or by the consent of the instructor	3 Credits	
	e for tour guides and tour management		
JA 3727 Prerequisite:	Japanese for Hotels JA 2702 Japanese III or by the consent of the instructor	3 Credits	
Japanese used in rendering he			
JA 3728 Prerequisite:	Japanese for Airline Services JA 2702 Japanese III or by the consent of the instructor	3 Credits	
	try: customer services, reception and hospitality		
JA 3729 Prerequisite:	Survey of Japanese Literature JA 2702 Japanese III or by the consent of the instructor	3 Credits	
Survey of Japanese literary	works in prose, poetry and drama, the main movements in Japanese th day, readings, discussions and analyzing of the eminent writers and t nese thinking		
JA 4701 Prerequisite:	Reading in Business Japanese I JA 3702 Business Japanese I	3 Credits	
Reading and analyzing variou	s business-related articles		
JA 4702 Prerequisite:	Business Writing in Japanese I JA 3702 Business Japanese I	3 Credits	
	ments: e-mail, resume, forms, and business reports		
JA 4703 Prerequisite:	Translation I: Japanese - Thai JA 3702 Business Japanese I	3 Credits	
Purposes, methods and techniques of translation from Japanese into Thai, development of skills in analyzing sen- tence patterns of the Japanese language, the use of words, idioms and structure for accuracy in meaning and style of original document			
JA 4704 Prerequisite:	Translation II: Thai - Japanese JA 3702 Business Japanese I	3 Credits	
Purposes, methods and techniques of translation from Thai into Japanese, development of skills in analyzing sen- tence patterns of the Thai language, the use of words, idioms and structures for accuracy in meaning and style of original document			
JA 4721	Japanese Conversation and Discussion (Only for international students)	3 Credits	
	JA 3704 Oral Comprehension and Expression		
Conversation skills on various	topics of everyday life including some business topics		

JA 4722 Prerequisite:	Reading in Business Japanese II JA 4701 Reading in Business Japanese I	3 Credits
	nprehension skills of various business-related Japanese artic	
14 4722	Ducin on Muitin r in Jonan and II	2 Cuedite
JA 4723 Prereguisite:	Business Writing in Japanese II JA 4702 Business Writing in Japanese I	3 Credits
	JA 4702 business writing in Japanese i	
Practice of writing sk	ills through intensive practical exercises in grammar and m vitae, advertisement, signs used in business, such as	vocabulary, writing documents related
JA 4724	Business Japanese II	3 Credits
Prerequisite:	JA 3702 Business Japanese I	
	tion skills for various business interactions	
JA 4725	Translation in Business Japanese	3 Credits
	(Only for international students)	5 credits
Prerequisite:	JA 3702 Business Japanese I	
	translating business data from newspaper, texts, maga	
JA 4726	Public Speaking in Japanese	3 Credits
Prerequisite:	JA 3704 Oral Comprehension and Expression	
speaker-listener relatio JA 4727 Prerequisite:	Seminar By the consent of the instructor	3 Credits
Discussion on selecte	d topics about problems in using business Japanese and er interesting topics through panel discussions, workshops c	the various means of communication
LW 1101	Juristic Acts and Contracts Law	3 Credits
	rcial Code, Book 1, Title 4 on Juristic Acts, Title 5 on Perio Contracts.	
LW 1102	Property and Land Law	3 Credits
Principles of law relat according to the Land	ing to property according to the Civil and Commercial Co Act and other laws involved.	
LW 1201	Criminal Law I	3 Credits
	of criminal liability, scope of criminal law, attempt, prin rescription, penalties and criminological and enological the	cipals and accessories, concurrence of
LW 1501	Principles of Private Law	3 Credits
	ent, concept, role, and importance of private law as well a as of civil and private law, origins of laws, divisions and ca	s application and interpretation of law
LW 1502	Principle of Public Law	2 Credits
	of public law, definition, components, forms of governr	

LW 1503	Thai Legal History	2 Credits
Thai cultural and so and Western philos from the past to th order to enhance th between law and c	ocial history which is the origins of important Thai legal institutio ophies, legal principles and legal system on Thai law. A study of e present, especially from the era of compiling law codes with en he students' understanding of Thai legal system. A study of legal the other sciences, origins of law, important legal systems, nature of l plication and interpretation.	ns and the influence of Indian f the development of Thai law nphasizing on comparative law eories and notions, relationship
LW 1504	Constitutional Law	3 Credits
History and develop portant constitution	pment of the Constitution, various governmental organizations, ri nal theories, such as theory of division of powers and theory of juc constitutional systems.	
LW 2103	Obligations Law	3 Credits
Significance of law, mercial Code Book and debtors, transfe	types, sources, subjects, performance and effects of obligations at 2, Title 1, Chapters 1 and 2, Pat 1 and preferential rights arising f er of claims and extinction of obligations according to the Civil art 2-6 and Titles 3, 4 and 5.	ccording to the Civil and Com- rom debt, plurality of creditors
LW 2104	Law of Delict	3 Credits
	without mandate and undue enrichment according to the Civil and Co	
LW 2105	Insurance Law	2 Credits
	elating to insurance according to the Civil and Commercial Code life insurances.	
LW 2106	Specific Contracts I	3 Credits
	ating to sale, exchange, gifts, hire of property, and hire-purchase a	
LW 2107	Partnership and Company Law	3 Credits
Principles of law rel	lating to the organization, operation and liquidation of ordinary p rships, limited companies, and public companies and securities regula	artnerships, registered partner-
LW 2108	Negotiable Instruments and Current Accounts Law	2 Credits
Negotiable instrume	nts and current accounts according to the Civil and Commercial Code	, Book 3 Titles 21 and 19.
LW 2202 Prerequisite:	Criminal Law II LW 1201 Criminal Law I	2 Credits
Specific offenses in forgery, trade, and se	cluding those concerning the security of the kingdom, religion, ex.	 , public peace, public danger,
LW 2203 Prerequisite:	Criminal Law III LW 1201 Criminal Law I	3 Credits
Specific offenses incl	uding those concerning life and body, liberty, reputation, and propert	 ty as well as petty offenses.
LW 2505	Administrative Law	2 Credits
	system, the relationship among political governmental organization as public service management, and concession.	 on, rights between public and

LW 2601	Public Finance Law	2 Credits	
Law of public finance concer	ning financial matters, treasury, budget control, financial institutions, the ters, and treasury employed by the government in the administration of the		
LW 2602	Computer Law and Computer for Legal Research	3 Credits	
Law on computer and applie	cation of computer to legal research, information collection and legal outer to legal works and information services.	services, general	
LW 3001	English for Lawyers I	2 Credits	
	uding definitions and examples of English words used in general principles	of law.	
LW 3002	English for Lawyers II	2 Credits	
Vocabularies and English legal	terminologies used in several legal areas.		
LW 3109 Prerequisite:	Specific Contracts II LA 2105 Specific Contracts I	3 Credits	
Law on hire of services, hire	of work, carriage according to the Civil and Commercial Code, Book ge, compromise and gambling and betting.	3, Ioan, deposit,	
LW 3110	Family Law	3 Credits	
The Civil and Commercial Cod			
LW 3111	Secured Transactions Law	2 Credits	
	rety ship, mortgage, and pledge according to the Civil and Commercial Cod	e Book 3.	
LW 3112	Succession Law	3 Credits	
The Civil and Commercial Cod	e Book 6.		
LW 3301	Civil Procedural Law	4 Credits	
	cedure and the procedure at trial court level, appeal court and Supreme Co	urt.	
LW 3302	Criminal Procedural Law	4 Credits	
Analysis of criminal procedure according to the Criminal Procedure Code with emphasizing on authorities and duties of officials, scope of investigation arrests, interrogation, confinement, prosecution, trial, appeals, and execution of judgment.			
LW 3303	Constitution of Courts of Justice and Judicial System	2 Credits	
Constitution of Court of Justic	e, judiciary, court jurisdiction, judicial powers in trial, and judicial systems.		
LW 3304 Prerequisite:	Civil Procedural Law on Execution of Judgment and Orders LW 3301 Civil Procedural Law	2 Credits	
Principles of law of provisional	measures and execution of judgments and orders.		
LW 3305	Evidence Law	3 Credits	
5 1 1	of evidence and provisions appearing in the Civil Procedure Code ar	nd Criminal Pro-	
cedure Code.			
cedure Code. LW 3306	Bankruptcy Law	3 Credits	

LW 3401	Public International Law	3 Credits	
	acetime and wartime, court jurisdictions in criminal cases under interna	ational law prin-	
LW 3602 Prerequisite:	Tax Law I LA 2601 Public Finance Law	3 Credits	
	ersonal income tax and corporate income tax.		
LW 3603 Prerequisite:	Tax Law II LW 2601 Public Finance Law	2 Credits	
	of value-added tax and double tax treaties.		
LW 4113	Seminar in Civil and Commercial Law	2 Credits	
A seminar in important Civil P			
LW 4204	Criminology and Penology	2 Credits	
Relationship between crimin guidelines of criminologists i	ological theories and criminal law, criminal procedure, criminal procedu n order to study criminological theories from past to present, classification scope of enforcement of criminal law and social philosophies in respec	on of crimes and	
LW 4205	Criminal Investigation	2 Credits	
	emphasizing on law enforcement, scientific investigations, evidence fir fevidence and witnesses.	nding, interroga-	
LW 4206	Seminar in Criminal Law	2 Credits	
Seminar in important Crimina	I Law topics.		
LW 4307	Juvenile and Family Law	2 Credits	
	system as well court procedure in such cases and family cases.		
LW 4308	Administrative Court and Administrative Procedure	2 Credits	
	including court jurisdiction as well as legislation relates to administrative	e procedure and	
LW 4309	Seminar in Civil Procedural Law	2 Credits	
Prerequisite:	LW 3304 Civil Procedural Law on Execution of Judgment or Orders of a co	urt.	
Seminar in important civil pro	cedural law topics.		
LW 4310 Prerequisite:	Seminar in Criminal Procedural Law LA 3302 Law of Criminal Procedure	2 Credits	
Seminar in important criminal procedural law topics.			
LW 4402	Private International Law	3 Credits	
General nature of private international law, distinction between citizenship's according to the Nationality Act (nation- ality of persons, acquisition and loss of nationality under Thai law, domicile, residence, nationality and domicile of juristic persons, rights and status of aliens) conflict of laws, and private international law trial.			

LW 4403 International Economic Law

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Rules and economic relationship among developed countries and developing countries in 1) General Agreement on Tariffs and Trade (GATT) to analyze agreements in multilateral trade negotiations, the negotiations within the GATT framework and foreign economic laws which effect Thai export, 2) the International Monetary Fund to analyze the rules of lending in the case of deficit, indebtedness and development and 3) rules to control transnational companies.

2 Credits

problems of ephilagic state	e, environmental control, scientific re	clusive economic zones, international waters, specific search, technological development , solutions for dis- ailand's roles and view toward problems concern.	
LW 4406	International Organization Law	2 Credits	
Development of internatio gans of the United Natior the Trusteeship Council, th agencies such as the Inte	is, such as the General Assembly, the e Secretariat and the International C rnational Labor Organization, the Ur Health Organization and region org	and duties of the League of Nations and various or- e Security Council, the Economic and Social Council, Court of Justice, the powers and duties of specialized nited Nations Educational, Scientific and Cultural Or- anizations such as the European Union, Association	
LW 4407	Human Rights Law	2 Credits	
Definition and philosophy	of human rights at regional levels,	human rights under the League of Nations and the such as Europe, America, Africa and Arab States, the	
LW 4408	ASEAN Law	2 Credits	
Evolution of Regionalism in Southeast Asia and ASEAN prior to the adoption of ASEAN Charter; ASEAN Free Trade Agreement (AFTA), ASEAN Trade in Goods Agreement (ATIGA); ASEAN Framework Agreement on Services (AFAS); Framework Agreement on the ASEAN Investment Area (AIA); ASEAN Comprehensive Investment Agree- ment (ACIA); Asian Economic Community (AEC), ASEAN Charter and its legal issues and implications; legal criteria of regional groupings according to General Agreement on Tariffs and Trade (GATT) and The Marrakesh Agreement Establishing The World Trade Organization (WTO Agreement); legal criteria of international organizations in light of international law, and ASEAN's relationships with outside powers.			
LW 4506	Philosophy of Law	2 Credits	
	sophies from past to present and root o		

Laws on water transport, ships, agreements on carriage of goods by sea; collision at sea, salvage at sea, laws of

sea bed which in beyond state boundaries, sea territories, exclusive economic zones, international waters, specific

Military Law 2 Credits IW 4507 The Constitution of Military Court, the Military Criminal Code, military disciplines, and martial law. Environmental Law 2 Credits IW 4508

------Causes of environmental problems and their effects of life, society and country, governmental control of problems studied from state policy and competent offices, environmental law on protection of air, water and land and litigations for damages in case of environmental problems.

LW 4509	Introduction to American and English Legal System	2 Credits
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------Origins, scope and development of common law system in the US and UK. This course also focuses on roles and functions of various legal institutions and professions, relationships between federal and state law in the US, relationships between English law and European Union law, framework of American and English legal education, and structure of partially significant law in both countries.

Forensic Medicine 2 Credits LW 4510

History and objective of forensic medicine, autopsy, human identification, forensic finger print, investigation of crime and death and investigation of death by accident.

LW 4404	1404
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LW 4405

and development of international law of sea, present problems in respect of international law concerning the sea and

2 Credits Economic and political importance of the sea to humanity, philosophies on use and possession of the sea, definition

Maritime Law

Law of the Sea

towage, and laws concerning international sea for vessels.

2 Credits

LW 4511 Principles of Legal Profession 2 Credits Development of legal profession, responsibility and work of lawyers in various branches, lawyer's etiquettes and ideals and various organizations formed to monitor people in the legal profession. LW 4604 Labor and Social Security Law 3 Credits _____ Principles of labor law, history of labor law in Thailand, present labor law of Thailand relating to labor protection, labor relations, labor management, alien workers and guidelines for consideration and interpretation of various problems relating to labor and social security law. LW 4605 Intellectual Property Law 3 Credits _____ Nature of various types of intellectual property with emphasizing on copyright, patents and trademarks, domestic copyright protection, international copyrights protection, protection of patent, trademarks and copyright under Thai law, protection of other types of intellectual property such as rights over trade name, trade secrete as well as developing countries' policy in drafting patent law. LW 4606 International Business Transactions Law 2 Credits Legal problems which may arise from international business operations with emphasizing on doing business with developed countries, especially with member states of the European Union and the United states, legal status of international protection for companies, certain legal perspectives of international contracts (such as F.O.B. and C.I.F.) and process of arbitration for international business. W 4607 Banking and Financial Institutions Law 2 Credits Roles of commercial banks and other financial institutions, control and support policies as well as banking and financial institutions laws. Securities and Securities Exchange Law LW 4608 2 Credits Development of securities exchange market in Thailand and its management various institutions involved, issuance and exchange of securities, control and operation of securities business, tax law and accounting relating to securities exchange, legal measures of various problems of securities exchange. Principles of Contract Drafting IW 4609 2 Credits _____ Methods and problems in drafting various types of contract, contract forms, laws involved, and contract samples. Investment Law LW 4610 2 Credits Importance of investment, Thai economic structure, policies and laws involved especially those of developing countries, laws on direct investment, portfolio investment, financial institutions and other laws which effects on investment LW 4611 Counseling and Advocacy 2 Credits Practice of legal counseling by giving legal advice to public by learning to solve hypothetical problems under supervision of an advisor, drafting of various contracts, establishment and management of law firms and legal consulting firms. A study of all procedure involved in litigation such as case preparation, drafting of complaints, replies, motions and petitions, litigation techniques; for example, evidence presentation, witness examination, verbal statement, judgment, filing appeals as well as enforcement of a judgment or order of a court. Customs Law LW 4612 2 Credits Nature and objectives of law of customs and excise, development and origins of law, liability to pay customs, customs procedure, offenses under customs law, authorities and duties of customs officials, litigation of customs cases, rules on tariffs, exemption of customs, interpretation of tariffs, customs exemption as well as customs law and investment promotion and customs law and industrial estates. Industrial Law 2 Credits LW 4613

Principles of law relating to industrial operations and rules, regulations and legal problems arising from industrial operations.

LW 4614 Real Estate Law 2 Credits Nature of use and business exploitation of land by private sector, law controlling such business, law on residence, commercial building, condominium, shopping center and resort management and practice and contracts concerning real estate business. LW 4615 Tax Law III 2 Credits Additional important tax laws concerning business, such as signboard tax, building and land tax and municipal tax. LW 4616 Consumer Protection Law 2 Credits Various laws with the objectives to protect the consumer's rights especially consumer protection law with emphasizing on advantages and drawbacks of Thailand's consumer protection law in order to give suggestion importance of legal measures in consumer protection. Anti-Monopoly Law LW 4617 2 Credits Anti-monopoly and its effects on consumers, economy and national security, anti-monopoly laws, market sharing, concerted practices of traders, factory owners of trade associations, and price and production agreements. LW 4618 2 Credits Commercial Arbitration Law _____ Thai Arbitration law, rule and regulation concerning arbitration of the Thai Chamber of Commerce, the International Chamber of Commerce and other important organizations, arbitration treaties and the execution of arbitral awards. LW 4619 2 Credits Natural Resources Law Laws on petroleum, minerals, forests, and etc. LW 4620 Seminar in Tax Law 2 Credits Prerequisite: LA 3602 Tax Law I A seminar in important tax law topics. Seminar in Business Law LW 4621 2 Credits Seminar in important business law topics. LW 4622 Electronic Commerce Law 2 Credits Fundamental legal issues relating to transactions made by any electronic means, for example, a sale of goods or services via internet or electronic data interchange important legal issues as well as issues involving formation of contract, legal status of electronic signatures, legal requirements as to writing or original in relation to electronic records, and admissibility in evidence of electronic records, various perspectives of data protection and computer crimes, both positions of Thai laws and legal development of foreign laws including model or uniform laws initiated by establishing international organizations such as UNCITRAL or EU. LW 4623 Computer and Law: A Seminar Course 2 Credits Seminar in legal problems that could result in developing to make use of data and information that might result in violation of right holders, crimes related to intellectual property rights and computer crime law. MA 0610 2 Credits Music Ensemble Ensemble in vocal, string, woodwind, and brass. MA 1101 Applied Composition I 2 Credits Exploration and development of techniques used in fine art composition. Creation of short compositions in various

Exploration and development of techniques used in fine art composition. Creation of short compositions in various media.

MA 1102 Prerequisite:	Applied Composition II MA 1101 Applied Composition I	2 Credits		
	iques used in fine art composition. Creation of short compositions in variou	s media.		
MA 1300	Introduction to Applied Music	1 Credits		
	echniques and interpretation of fine art music.			
MA 1301	Applied Music I	2 Credits		
	e techniques and interpretation of fine art music, based on student's sel	ection of instru-		
MA 1302 Prerequisite:	Applied Music II MA 1301 Applied Music I	2 Credits		
	ormance techniques and interpretation of fine art music, based on stude from the previous course.	nt's selection of		
MA 1401	Piano Harmony I	2 Credits		
	sight reading, clef reading improvisation, transposition, figured bass, a	nalysis and ac-		
MA 1402 Prerequisite:	Piano Harmony II MA 1401 Piano Harmony I	2 Credits		
	armony I. Piano techniques including sight reading, clef reading improv nd accompanying.	isation, transpo-		
MA 1600	Basic Guitar Instructions	1 Credit		
	ss will be divided into small groups of students.			
MA 1700	Basic Vocal Instructions	1 Credit		
	ss will be divided into small groups of students.			
MA 2101 Prerequisite:	Applied Composition III MA 1102 Applied Composition II	2 Credits		
	iques used in fine art composition. Creation of short compositions in variou	is media.		
MA 2102 Prerequisite:	Applied Composition IV MA 2101 Applied Composition III	2 Credits		
	iques used in fine art composition. Creation of short compositions in variou	is media.		
MA 2301 Prerequisite:	Applied Music III MA 1302 Applied Music II	2 Credits		
Further development of performance techniques and interpretation of fine art music, based on student's selection of instrument and improvement from the previous course.				
MA 2302 Prerequisite:	Applied Music IV MA 2301 Applied Music III	2 Credits		
	ormance techniques and interpretation of fine art music, based on stude from the previous course.	nt's selection of		
MA 2501	Chorus I	1 credit		
	ng skills, basic vocal production and tachniques, sight-singing skills, pr	stice variety of		

Development of group singing skills, basic vocal production and techniques, sight-singing skills, practice variety of choral works in unison, cannon and simple arrangement. Attending the choral concert and performing one major concert are required.

MA 2502	Channell II	1
MA 2502 Prerequisite:	Chorus II MA 2501 Chorus I	1 credit
Development of group singi	ng skills, early intermediate vocal production and techniques, sight-sing in 2-4 parts harmony. Attending the choral concert and performing on	
MA 2503 Prerequisite:	Chorus III MA 2502 Chorus II	1 Credit
Development of group singir	ng skills, intermediate vocal production and techniques, sight-singing sk ling the choral concert and performing one major concert are required.	lls, and practice
MA 2504 Prerequisite:	Chorus IV MA 2503 Chorus III	1 Credit
Development of group singi	ing skills, advanced vocal production and techniques, sight-singing ski ling the choral concert and performing one major concert are required.	ls, and practice
MA 3101 Prerequisite:	Applied Composition V MA 2102 Applied Composition IV	2 Credits
	niques used in fine art composition. Creation of medium length compos	itions in various
MA 3102 Prerequisite:	Applied Composition VI MA 3101 Applied Composition V	2 Credits
	niques used in fine art composition. Creation of medium length compos	itions in various
MA 3301 Prerequisite:	Applied Music V MA 2302 Applied Music IV	2 Credits
	ormance techniques and interpretation of fine art music, based on stude from the previous course.	nt's selection of
MA 3302 Prerequisite:	Applied Music VI MA 3301 Applied Music V	2 Credits
	ormance techniques and interpretation of fine art music, based on stude from the previous course.	nt's selection of
MA 3501 Prerequisite:	Flamenco Techniques MA 2302 Applied Music IV	2 Credits
Practical Flamenco guitar teo	chniques with emphasis on the elementary chord progressions and tector Bulerias, Soleares, Alegrias, Sevillanas, Farruca, Tientos, Tangos, F	
MA 3801 Prerequisite:	Contemporary Music Ensemble I MA 1302 Applied Music II	1 Credit
	s with focus on contemporary fine art music.	
MA 3901 Prerequisite:	Baroque Music Ensemble I MA 1302 Applied Music II	1 Credit
	with focus on the performance of Baroque music.	
MA 4101 Prerequisite:	Applied Composition VII MA 3102 Applied Composition VI	2 Credits
	niques used in fine art composition. Creation of medium length compos	itions in various

Further development of techniques used in fine art composition. Creation of medium length compositions in various media.

MA 4102 Prerequisite:	Applied Composition VIII MA 4101 Applied Composition VII	2 Credits
	f techniques used in fine art composition. Creation of medium	
MA 4301 Prerequisite:	Applied Music VII MA 3302 Applied Composition VI	2 Credits
Further development o	f performance techniques and interpretation of fine art music, ment from the previous course.	
MA 4302 Prerequisite:		2 Credits
Further development o	f performance techniques and interpretation of fine art music, ment from the previous course.	
MA 4311 Prerequisite:	Advanced Performance I MA 3302 Applied Music VI	2 Credits
	performance techniques and interpretation of fine art music.	
MA 4312 Prerequisite:	Advanced Performance II MA 4311 Advanced Performance I	2 Credits
	performance techniques and interpretation of fine art music.	
		2 Credite
MB 2421	Music Production Technology	3 Credits
Aural training in vario acoustic fundamentals,	Music Production Technology us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o	 s, psycho acoustics, sound and al audio workstation and music
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite:	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing	s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music ind industry, development	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I	 s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music ind industry, development music career, vocabular	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti	 s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music individual performance	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti ry and terminology of the music industry, and the distinction I Music Business II	s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional between music and business at 3 Credits budgeting and executing from n, sponsorship, settlement, and
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music individual the corporate level. MB 2522 Prerequisite: Introduction to econor individual performance case studies of successfu MB 3421 Prerequisite:	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti ry and terminology of the music industry, and the distinction I Music Business II Music Business II MB 2521 Music Business I mic essentials, analysis of financial documents, planning the to big concert production, accounting practices, promotior ul/non-successful manager and management companies in music Music Business Technology MB 2421 Music Production Technology	s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional between music and business at 3 Credits budgeting and executing from n, sponsorship, settlement, and
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music indindustry, development music career, vocabular the corporate level. MB 2522 Prerequisite: Introduction to econor individual performance case studies of successfu MB 3421 Prerequisite: Overview of music indu	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti y and terminology of the music industry, and the distinction I Music Business II Music Business II MB 2521 Music Business I mic essentials, analysis of financial documents, planning the to big concert production, accounting practices, promotior al/non-successful manager and management companies in music Music Business Technology	s, psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional between music and business at 3 Credits budgeting and executing from n, sponsorship, settlement, and industry. 3 Credits 3 Credits
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music individual music career, vocabular the corporate level. MB 2522 Prerequisite: Introduction to econor individual performance case studies of successfu MB 3421 Prerequisite: Overview of music individual formats, converge MB 3423 Prerequisite:	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti ry and terminology of the music industry, and the distinction I Music Business II Music Business II Music Business II mic essentials, analysis of financial documents, planning the r to big concert production, accounting practices, promotior ul/non-successful manager and management companies in music Music Business Technology MB 2421 Music Production Technology ustry, history of music publication, digital music, music production ence of music/business/technology, SEO—Search Engine Optimiza Sound Design and Sound Logo MB 3421 Music Business Technology	 a audio workstation and music verview. 3 Credits a resect, career paths in the music vely maintaining a professional between music and business at 3 Credits budgeting and executing from n, sponsorship, settlement, and industry. 3 Credits a Credits a Credits
Aural training in vario acoustic fundamentals, software, sound signatu MB 2521 Prerequisite: Survey of the music ind industry, development music career, vocabular the corporate level. MB 2522 Prerequisite: Introduction to econor individual performance case studies of successfu MB 3421 Prerequisite: Overview of music indu audio formats, converge MB 3423 Prerequisite: Introduction to sound	us musical genres, styles, periods and from different regions analog and digital recording, music production process, digita re, and music pre-production, production, and post-production o Music Business I Sophomore year standing dustry, highlighting those areas where music and business inte of business-related knowledge and skills necessary for effecti ry and terminology of the music industry, and the distinction I Music Business II Music Business II mic essentials, analysis of financial documents, planning the to big concert production, accounting practices, promotior ul/non-successful manager and management companies in music Music Business Technology MB 2421 Music Production Technology ustry, history of music publication, digital music, music product ence of music/business/technology, SEO—Search Engine Optimiza Sound Design and Sound Logo	 psycho acoustics, sound and al audio workstation and music verview. 3 Credits rsect, career paths in the music vely maintaining a professional between music and business at 3 Credits budgeting and executing from n, sponsorship, settlement, and industry. 3 Credits industry. 3 Credits 3 Credits

11

WILLE ASSUM

Legal issues confronting music business: with artists, musicians, engineers, and producers, legal changes and challenges, real approach to legal matters and individuals' working procedure in the music business world today and national and international copyright law.

MB 3513 Prerequisite:	Local Internship in Music Industry (240 hours) MB 2522 Music Business II	3 Credits	
	e music industry for at least 240 hours.		
MB 3531 Prerequisite:	History of Music Industry in Thailand MB 2522 Music Business II	3 Credits	
Overview of Thai music indust ing of live music performance	try, three main components depicting important roles of music industry in , publishing, and recording, development and formation of Thai music indu Thai culture, impact of new technology and innovation imported to Thailand Music industry.	stry, influx of	ris-
MB 3532 Prerequisite:	Classical Music Management MB 2522 Music Business II	3 Credits	
Overview of classical music in and development from a solo	dustry, how monies are generated in the classical music sector, classical arti artist to a grand orchestra, concert venue selection, new developments in o that classical music can be marketed, promoted, distributed, sponsored and	digital technol	
MB 4511 Prerequisite:	Music Business Artist/Project Management MB 2522 Music Business II	3 Credits	
Personal and business issue	es relating to the management of music artists/projects, negotiating o couring, merchandising, fees, duties and taxes.	contracts, ima	ige,
MB 4512 Prerequisite:	Music in Film Industry MB 2522 Music Business II	3 Credits	
History of cinema, film score	ing, sound effects, history and development of incorporating sound in relation to film and broadcast media.	to films, spec	cific
MB 4514	Career Options in Music Business	3 Credits	
	internship, career path in the music industry and in-depth study of po	tential careers	s in
MB 4521 Prerequisite:	Selected Topics in Music Business I MB 4511 Music Business Artist/Project Management	1 Credit	
Individual project on a topic o	or area of interest in the Music Industry.		
MB 4522 Prerequisite:	Selected Topics in Music Business II MB 4521 Selected Topics in Music Business I	2 Credits	
Implementation of the project	t and business plan written into practicum and execution.		
MB 4523 Prerequisite:	Music Business Seminar MB 4521 Selected Topics in Music Industry I	2 Credits	
Selected issues in music bus	siness based on individual interest, research in the field of music busin nary research, visits to various businesses and personal interviews.	ess w <mark>ith cont</mark>	ent
MC 2211 Prerequisite:	History of Music Notation MU 1112 Theory of Western Music II	2 Credits	
Evolution of music notation.	Tablature systems, Neumatic and Mensural notation. Elements of notat diomatic notation. Manuscript techniques. Music terminology.	ion in traditio	nal
MC 2242	Opera Staging	2 Credits	
History of opera from its birt Form and structure in opera,	h in the late Renaissance, its development in the 17th century, and cont relations between text and music, the world of singers and the charact c orchestra with emphasis on notions of opera production: staging, set ut the world.	ers they port	ray,

2 Credits

Prerequisite: MA 1302 Applied Music II Discussion and implementation of techniques for accompanying a vocalist or instrumentalist. Use of stylistically appropriate rhythm and voicing techniques in a supportive role. Introductions, endings, modulations, and transposition. MC 2302 Accompaniment II 2 Credits Prerequisite: MC 2301 Accompaniment I A continuation from Accompaniment I. Discussion and implementation of techniques for accompanying a vocalist or instrumentalist. Use of stylistically appropriate rhythm and voicing techniques in a supportive role: introductions, endings, modulations, and transposition. MC 2511 Vocal Diction I 1 Credit Principles of accurate pronunciation in specified languages. Basic skills in International Phonetic Alphabet (IPA) and Italian diction. Students must take the sequence in chronological order and must study private voice during each semester. MC 2512 Vocal Diction II 1 Credit MC 2511 Vocal Diction I Prerequisite: Principles of accurate pronunciation in Latin and English. Students must take the sequence in chronological order and must study private voice during each semester. MC 3201 Keyboard Literature I 3 Credits Prerequisite: MA 2302 Applied Music IV _____ Historical survey of the contributive elements, stylistic characteristics, form and keyboard (Organ, Harpsichord, Piano) techniques from the 16th century to the 20th century. History of the development of the keyboard and its literature, including music written for early keyboard instruments. MC 3202 Keyboard Literature II 3 Credits Prerequisite: MC 3201 Keyboard Literature I A continuation of Keyboard Literature I. Examination of style and structure and their impact on performance. Chamber music, concerti, and solo keyboard literature with emphasis on the 19th and the 20th century repertory. Guitar Literature I MC 3221 3 Credits Prerequisite: MA 2302 Applied Music IV Historical survey of the contributive elements, stylistic characteristics, instruments and techniques from the 16th century to the 20th century. History of the development of the guitar and its literature. MC 3222 Guitar Literature II 3 Credits MC 3221 Guitar Literature I Prerequisite: A continuation of Guitar Literature I. Examination of style and structure and their impact on performance. Chamber music with guitar and solo guitar literature with emphasis on the 19th and the 20th century repertory. MC 3231 Lute Literature I 3 Credits MA 2302 Applied Music IV Prerequisite: Historical survey of the contributive elements, stylistic characteristics, instruments and techniques from the Middle-Age to the late Baroque period. History of the development of the lute and its literature. Lute Literature II MC 3232 3 Credits MC 3231 Lute Literature I Prerequisite: A continuation of Lute Literature I. Style and structure and their impact on performance. Chamber music with lute and solo literature with emphasis on the 16th century repertory.

MC 3241 Prerequisite:	Vocal Literature MA 2302 Applied Music IV	3 Credits	
Survey of standard vocal rep	vertoire from the High Baroque to the present with emphasis on stylistic repertoire selection, major composers and representative works.	and interpretive	
MC 3242 Prerequisite:	Opera Literature MC 2242 Opera Staging	3 Credits	
Development of opera from	its beginning to the present with emphasis on stylistic and interpretive tr n, major composers and representative works.	aits, pedagogical	
MC 3310 Prerequisite:	Junior Recital MA 3301 Applied Music V	2 Credits	
Providing opportunity for stu	idents majoring in applied music to demonstrate their ability and performers must give at least a 30-45 minute recital.	m in a variety of	
MC 3511 Prerequisite:	Introduction to Basso Continuo MU 2114 Theory of Western Music IV	2 Credits	
Basic principles and techniqu	ie of continuo playing. Harmonization of a melody placed in the bass line tion, first and second inversion and their use in basso continuo practice.	e playing a four-	
MC 3512 Prerequisite:	Advanced Basso Continuo MC 3511 Introduction to Basso Continuo	2 Credits	
Advanced principles and te	chniques of continuo playing. Seventh, ninth, and suspensions. Differ gers, from one or two soloists up to the orchestra.	rent accompani-	
MC 3513 Prerequisite:	Vocal Diction III MC 2512 Vocal Diction II	1 Credit	
	nciation in German. Students must take the sequence in chronological h semester.	order and must	
MC 3514 Prerequisite:	Vocal Diction IV MC 3513 Vocal Diction III	1 Credit	
	nciation in French. Students must take the sequence in chronological h semester.	order and must	
MC 4212 Prerequisite:	Lute Tablature MA 2302 Applied Music IV	2 Credits	
Detailed analysis of the lute Renaissance lute, archlute, th	tablature systems: Italian, French, German and Spanish tablature. Diffe neorbo and Baroque lute, how to transcribe tablatures in modern notation phasis on the 16th and the 17th century repertory.		
MC 4311 Prerequisite:	Senior Recital MA 4301 Applied Music VII	4 Credits	
	cital demonstrating the ability to perform in a variety of musical styles and	periods.	
MC 4312 Prerequisite:	Recital for Composition MA 4101 Applied Composition VII	4 Credits	
Scheduling, promoting, rehearsing and executing a recital of original compositions. Works may be acoustic, elec- tronic or multimedia. Recital duration should be at least 45 minutes.			
MC 4710 Prerequisite:	Piano Pedagogy MA 3302 Applied Composition VI	2 Credits	
Introduction to basic pedage	ogical principles, general designs of materials for beginning pianists, va n including the study of repertoires, examination and evaluation of tea		

MC 4711 Prerequisite:	Harpsichord Pedagogy MA 3302 Applied Composition VI	2 Credits
Analysis of stylistic and towards ancient music novation in performan	d musical aspects of harpsichord music by the educational point of and to historical informed practice. Most important composers, th ce technique, especially compared with other keyboard instrumen nderstand and learn harmony.	eir treatises and their in-
MC 4712 Prerequisite:	Guitar Pedagogy MA 3302 Applied Composition VI	2 Credits
	prary materials and techniques. Survey of guitar pedagogy.	
MC 4713 Prerequisite:	Lute Pedagogy MA 3302 Applied Composition VI	2 Credits
	prary materials and techniques. Survey of Lute pedagogy.	
MC 4714 Prerequisite:	Vocal Pedagogy MA 3302 Applied Composition VI	2 Credits
Foundation areas of pe	edagogy in voice, addressing the nature of sound, posture, breathing fication, resonation, articulation, the speaking voice and coordination.	and support, phonation
MC 4715 Prerequisite:	String Pedagogy MA 3302 Applied Composition VI	2 Credits
Basic information conce	erning appropriate teaching method, teaching strategy, technique repertoire and instructional materials for string instrument. History	1 1 1 1 31
MC 4716 Prerequisite:	Percussion Pedagogy MA 3302 Applied Composition VI	2 Credits
Basic information conce	erning appropriate teaching method, teaching strategy, technique repertoire and instructional materials for percussion instrument.	
percussion instrument.		instory and evolution of
	Woodwind Pedagogy MA 3302 Applied Composition VI	2 Credits
MC 4717 Prerequisite: Basic information conce performance practice,		2 Credits development, physiology,
MC 4717 Prerequisite: Basic information conce performance practice, woodwind instrument. MC 4718	MA 3302 Applied Composition VI erning appropriate teaching method, teaching strategy, technique repertoire and instructional materials for woodwind instrument. Brass Pedagogy MA 3302 Applied Composition VI	2 Credits development, physiology,
Basic information conceptor performance practice, woodwind instrument. MC 4718 Prerequisite: Basic information conce	MA 3302 Applied Composition VI erning appropriate teaching method, teaching strategy, technique repertoire and instructional materials for woodwind instrument. Brass Pedagogy	2 Credits development, physiology, History and evolution of 2 Credits development, physiology,

(PLC) as a controller for Mechatronics system, The need for a systems approach to Engineering Design, Control and Embedded Intelligence or PLC.

MCE 2102 Prerequisite or Co-requisite:	Mechatronics Engineering Laboratory I MCE 2101 Fundamentals of Mechatronics Engineering	1 credit		
Experiments covering basic sensors such as inductive, capacitive, magnetic, photoelectric and ultra sonic. Program- mable Logic Controllers is introduced and experimental covering Ladder (LD), Structure Text (ST), Function Block Diagram (FBD) and Sequential Flow Chart (SFC) languages.				
MCE 4101 Prerequisite:	Introduction to Robotics ME 3120 Mechanics of Machinery	3 Credits		
Introduction to Robotic syst	tems, spatial descriptions, Kinematics, Jacobians, Robot dynamics, Tra I, Image processing and analysis.	ajectory genera-		
MCE 4102 Prerequisite:	Introduction to Industrial Automation CE 2704 Digital Logic Design	3 Credits		
	rs and actuators in manufacturing automation; signal conditioning;	computer-based		
MCE 4103 Prerequisite or Co-requisite:	Mechatronics Engineering Laboratory II MCE 4102 Introduction to Industrial Automation	1 Credit		
Experiments covering modul	ar Mechatronics system (mMs). In these stations, PLC is used to contro and actuators. Control methods: On-Off, Three-modes, P, PI, PID are stu xperiment.			
MCE 4801 Prerequisite:	Instrument for Aviation With the consent of the Instructor	6 credits		
	plications of instruments in aviation, IFR flight considerations, IFR flig man factors.	ht environment,		
MCE 4901 Prerequisite:	Mechatronics Engineering Project I Senior Standing	1 Credit		
	chatronics engineering. Students must be submit reports at the end of the	semester.		
MCE 4902 Prerequisite:	Mechatronics Engineering Project II MCE 4901 Mechatronics Engineering Project I	2 Credits		
	mechatronics Engineering Project I. Report is also required at the end of the	semester.		
MCE 4903	Advanced topics in Mechatronics Engineering	3 Credits		
Advanced topics in the field of	Mechatronics Engineering			
MCE 4904	Special Problems in Mechatronics Engineering	3 Credits		
	e field of Mechatronics Engineering			
ME 1112	Engineering Laboratory	2 credits		
Simple machine tools, electrical wiring and transformer winding, practice of basic electrical measuring instruments and basic electrical devices assembly with circuits diagrams. A full report of each job is required.				
ME 1113	Engineering Drawing	3 credits		
	ction orthographic drawing and pictorial drawings dimensioning and	tolerancing sec-		

Lettering, orthographic projection, orthographic drawing and pictorial drawings, dimensioning and tolerancing, sections, auxiliary views and development; freehand sketches, detail and assembly drawings, basic computer-aided drawing.

ME 2211 Prerequisite:	Engineering Mechanics I BG 1211 Physics I	3 credits
Force systems, resultant, eq	uilibrium, fluid statics, kinematics and kinetics of particles and rigid nd energy, impulse and momentum.	bodies, Newton's
ME 2220 Prerequisite:	Engineering Mechanics II ME 2211 Engineering Mechanics I	3 credits
Structure Analysis; Principle	of virtual work; Stability; Kinematics of Rigid Body; Plane motion of rig I Momentum method); Mechanical vibrations	id bodies (Forces
ME 3110 Prerequisite: or	Mechanics of Materials ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
Forces and stresses; stresses	s and strains relationship; stresses in beams, shear force and bendi orsion; buckling of columns; Mohr's circle and combined stresses; failure cr	0
ME 3120 Prerequisite: or	Mechanics of Machinery ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
Velocity and acceleration a	nalysis; kinematics and dynamics force analysis of mechanical device s; balancing of rotating and reciprocating mass.	s, linkages, gear
ME 3310 Prerequisites:	Thermofluids BG 1205 Calculus II BG 1213 Physics II	3 Credits
Workdone, energy, power, u	init, system, state, and field processes, compressible flows, mass consu uation, first law of thermodynamics, non-flow systems, energy equation tum equation, ideal flow.	
ME 3311 Prerequisite: or	Pneumatic and Hydraulic Systems ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
Fundamentals of Fluid Mec conservation of energy or E	hanics, fluid properties, Pascal's law, flow governing equations (con Bernoulli's equation, Torricelli's equation), basic flow in pipes, pumps, nd analysis, pneumatic systems, compressors, receivers, valves, flow throug	pipe design and
ME 3312 Prerequisite or Co-requisite:	Pneumatic and Hydraulic Systems Laboratory ME 3311 Pneumatic and Hydraulic Systems	1 Credit
Laboratory works to be done	according to ME 3311 Pneumatic and Hydraulic Systems.	
ME 4010 Prerequisite:	Machine Analysis and Design ME 1113 Engineering Drawing ME 3120 Mechanics of Machinery	3 Credits
Fundamental of mechanical	design; properties of materials, theories of failure; design of simple m nd pins, shafts, springs, power screws, coupling etc.; design project.	achine elements,
ME 4310 Prerequisite: or	Mechanical Vibration ME 2121 Engineering Dynamics ME 2220 Engineering Mechanics II	3 Credits
System with one degree of	freedom; torsional vibration, free and forced vibration, method of eases of freedom; methods and techniques to reduce and control vibration.	quivalent system,
ME 4410 Prerequisite:	Thermodynamics BG 1213 Physics II BG 1108 General Chemistry	3 Credits
First Law of thermodynamic	s; Second law of Thermo dynamics and Carnot cycle, energy: entropy;	basic heat trans-

First Law of thermodynamics; Second law of Thermo dynamics and Carnot cycle, energy: entropy; basic heat transfer and energy conversion.

ME 4411 Prerequisite:	Heat Transfer ME 4410 Thermodynamics	3 Credits		
Modes of heat transfer, the	rmal conductivity; heat conduction equation, steady- state, one-and e heat conduction, radiation, fundamentals of convection heat transfer.	two-dimensional		
ME 4412 Prerequisite:	Internal Combustion Engines ME 4410 Thermodynamics	3 Credits		
Internal combustion engine	Internal combustion engine fundamentals, spark-ignition and compression-ignition engines, fuels and combustion, ignition systems, ideal fuel air cycle, supercharging and scavenging, performance and testing, lubrication.			
MGT 1101	Introduction to Business	3 Credits		
General introduction to bus cabulary, business and its er	siness, philosophy, objectives and responsibility of business enterprison nvironment emphasizing fundamental principles of organization, legal f concerning personnel, accounting, marketing, production and finance.			
MGT 2404	Managerial Psychology	3 Credits		
Concepts and scope of social language symbol, perception and status, personality, lead	al psychology, basic psychological factors and how they relate to busir n, memory, emotion, social attitudes, persuasion, social and cultural e ership, group behavior, morale and application of these factors in the ion of morale, motivation of workers, and solutions of business and social p	environment, role human relation		
MGT 2900	Principles of Management MGT 1101 Introduction to Business	3 Credits		
		P. L. P. S. J.		
	lanning, organizing, leading and controlling, theory of management as anagement policies, departmentalization, centralization and decentral sources management.			
MGT 3801 Prerequisite:	Modern Office Management MGT 2900 Principles of Management	3 Credits		
Different phases of office ma	anagement, application of modern concepts of office management or rk, office layout, office personal, planning and control of office work, p			
MGT 3901 Prerequisite:	Organization Theory MGT 2900 Principles of Management	3 Credits		
Theories, practice and proble	ms of organization and its environment, function and structure of auth organization and social system, organizational behavior, organizational of corporate structure.			
MGT 3903 Prerequisite:	Leadership MGT 2900 Principles of Management	3 Credits		
Types of leaderships and recognition of the problems faced by leaders in various work situations, role of the first- line supervisor and his subordinate, exploration of theories of worker motivation and their application, nature and character of influential leaders.				
MGT 3905 Prerequisite:	Operations Management MGT 2900 Principles of Management	3 Credits		
Fundamentals of industrial management from the point of view of organization structure, product, product develop- ment and research, standardization, plant location and layout, materials handling, machines equipment and main- tenance, and overall operation of production and control.				
MGT 3907 Prerequisite:	Business Communication BG 2001 English IV	3 Credits		
Patterns of communication i	n business in both theories and practices of the business professional, pranda, conversation interviewing, presentation advertising and public			

P rs, essays and reporting, memoranda, conversation interviewing, presentation advertising and public relations, reading and listening techniques, electronic mail, videoconferencing, decision support systems, collaborative writing systems, group scheduling systems, and Internet-based communications

MGT 3915 Project Management Prerequisite: MGT 3905 Operation Management Project planning procedure by considering factors in determining project objectives, setting of work system, allocation of resources, project feasibility analysis, matrix model organization, management techniques and operation procedures in accomplishing goal such as implementation, communication, coordination, controlling and evaluation of project. MGT 3917 Innovation and Change Management Prerequisite: MGT 2900 Principles of Management Concepts of innovation and change management, innovation as a management process with external linkages, role of innovation and how to manage innovation within firms, new product and services development as part of innovation. MGT 3918 Sport Management MGT 3918 Sport Management Prerequisite: MGT 2900 Principles of Management Operation of professional sports, collegiate athletics, and recreational organizations and enterprises, basic organizational structures found in the sports industry, managerial concepts and processes, skills that are necessary for the successful administration of these organizations.

MGT 3922	Introduction to New Venture	3 Credits
Prerequisite:	MGT 2900 Principles of Management	

3 Credits

3 Credits

3 Credits

New venture formation, how to launch a new business venture, how to get ideas to reality, and how to develop strategy.

MGT 3923	Strategic Human Resources Management	3 Credits
Prerequisite:	MGT 2900 Principles of Management	

Phases of human resource management functions including selection, training, compensation, promotion and transfer, health and safety provisions, morale building, job stabilization,

grievance handling and disciplinary actions, and human relations aspect of dealing with personnel.

MGT 3924	Human Resources Development	3 Credits
Prerequisite:	MGT 3923 Strategic Human Resources Management	

Principles of training and development of personnel; types, methods, and contents of training programs, development of the programs, evaluation of training program, behavioral changes, and training for different levels of personnel and leadership training.

MGT 3928	Management for Growth and Sustainability	3 Credits
Prerequisite:	MGT 2900 Principles of Management	

Concepts of sustainable value to create business sustainability through investment strategies, market insight, operational excellence, sustainable development and sustainability principles which are used as drivers for innovation, collaboration, and transformation.

MGT 3940	Business Research Methodology	3 Credits
Prerequisite:	BG 2200 Statistics II	
	BIS 3340 Computer Tools in Research	

Scientific research methods for business decision-making and problem-solving with emphasis on nature of research, choosing a problem and scope for research in business administration, planning and organizing research project, methodology and techniques in data collection, design of research project, processing, analysis and presentation of data in appropriate report format

MGT 3942	Organizational Behavior	3 Credits
Prerequisite:	MGT 2900 Principles of Management	
	MGT 2404 Managerial Psychology	

Elements of individuals and group behaviors in organization for improving effective communications, conflict management, motivation, coordination, dynamics of change, leadership, and stress management.

Application of a quantitative analysis modeling to decision-making in a complex and dynamic business environment for organizational efficiency and effectiveness, managerial decision problems in management, marketing, operations, and finance.

3 Credits

MGT 4501	Wealth Management	3 Credits
Prerequisite:	FIN 3701 Corporate Finance	

Management of personal investment, financial planning, portfolio management, and property and tax planning for efficient wealth management.

Prerequisite: Management Major: Concentration Entrepreneurial Management	MGT 4806	Management Internship (240 Hours)	3 Credits
nanagement agement agement and prenetation and gement	Prerequisite:	Management Major: Concentration Entrepreneurial Manager	ment

Student will be assigned to work in organization in the area of management related projects under the direction of a faculty supervisor. Faculty provides oversight of individual field experience with classroom debriefings and follow-up.

MGT 4909	Communication in Management	3 Credits
Prerequisite:	MGT2900 Principles of Management	

Application of the general communication concept to business management system by studying of hindrance, communication problems affecting the management process and effectiveness, including approaches to solution of such problems relationship between communication system and other management ingredients such as decisionmaking, authority, responsibility, delegation, operation of organization, cooperation, coordination and conflicts with organization, including planning and controlling of communication systems for an optimal effectiveness in the management of organization.

MGT 4910	Productivity and Quality Management	3 Credits
Prerequisite:	MGT 3905 Operations Management	

Philosophy, principles and practices of productivity and quality management, concepts, tools, techniques and systems associated with productivity and quality including Quality Circle, TQM, ISO, Benchmarking and Six Sigma.

MGT 4911	Seminar in Management	3 Credits
Prerequisite:	Senior standing	

Application and Integration of knowledge and theories from various management levels: human resource management, entrepreneurial management and research through case studies, seminars and guest lectures.

MGT 4912	Individual Research	3 Credits
Prerequisite:	Senior Standing (Management Major)	

Developing in students the ability to apply a theoretical concept to the real world problems of any organization in a selected industry in Thailand. Any specific area of concentration will be chosen by the student upon agreement with an instructor the faculty members of Management Department. A typewritten report must be submitted.

 MGT 4914
 Entrepreneurship
 3 Credits

 Prerequisites:
 MKT 2280 Principles of Marketing
 5 FIN 3701 Corporate Finance

 MGT 3940 Business Research Methodology
 MGT 3905 Operations Management
 5 enior standing 112 credits (for marketing students)

Principles, theories and practical aspects of entrepreneurship, pre-start-up, start-up and early growth of new venture, writing business plan and making existing enterprises profitable

MGT 4916	Negotiation Strategy	3 Credits
Prerequisites:	MGT 2404 Managerial Psychology	
	MGT 2900 Principles of Management	

Principles and practice of domestic and international negotiations, for example in the fields of political, management, marketing and financial negotiations, impact of verbal and non-verbal communications upon negotiating process, development of skills in managing conflict resolutions within organization, the way to manage negotiating process and to handle the hard bargainer.
MGT 4910 Prerequisite:	Productivity and Quality Management MGT 3905 Operations Management	3 Credits
Philosophy, principles and p	practices of productivity and quality management, concepts, tools, ivity and quality including Quality Circle, TQM, ISO, Benchmarking and	
MGT 4911 Prerequisite:	Seminar in Management Senior standing	3 Credits
	of knowledge and theories from various management levels: hum ement and research through case studies, seminars and guest lectures.	
MGT 4912 Prerequisite:	Individual Research Senior Standing (Management Major)	3 Credits
Developing in students the a selected industry in Thailand	ability to apply a theoretical concept to the real world problems of I. Any specific area of concentration will be chosen by the student u bers of Management Department. A typewritten report must be submi	upon agreement with
MGT 4914 Prerequisites:	Entrepreneurship MKT 2280 Principles of Marketing FIN 3701 Corporate Finance MGT 3940 Business Research Methodology MGT 3905 Operations Management Senior standing 112 credits (for marketing students)	3 Credits
	ctical aspects of entrepreneurship, pre-start-up, start-up and early d making existing enterprises profitable	growth of new ven-
MGT 4916 Prerequisites:	Negotiation Strategy MGT 2404 Managerial Psychology MGT 2900 Principles of Management	3 Credits
Principles and practice of do marketing and financial neg	mestic and international negotiations, for example in the fields of p gotiations, impact of verbal and non-verbal communications upon naging conflict resolutions within organization, the way to manage iner.	negotiating process,
MGT 4926 Prerequisite:	Compensation and Performance Management MGT 3923 Strategic Human Resources Management	3 Credits
ment process which includes	nanagement within the wider context of human resource managem pay survey, job evaluation, and ems related to performance management system and suggestions for i	
MGT 4927 Prerequisite:	Human Resources Planning MGT 3923 Strategic Human Resources Management	3 Credits
Human resources functions, zational goals.	evaluation and identification of human resources requirements	for meeting organi-
MGT 4928 Prerequisite:	Employment Relations and Labor Law MGT 3923 Strategic Human Resources Management	3 Credits
Labor relations and collectiv	re bargaining which covers both union and management, legal fram nployer role, union organizing, bargaining issues, negotiation pro	
MGT 4943 Prerequisite:	Organizational Development MGT 3923 Strategic Human Resources Management	3 Credits
Concepts for developing org	ganizations, determining the direction for organization development egies and tactics of organization, development.	t, stages of organiza-

Prerequisites:
Each student is required to (approximately 4 months). T completion of the 4- month CE advisor and attend a semin

MGT 4945

Each student is required to show proof of work as a temporary employee with a private company for one-semester (approximately 4 months). The selected company must be approved by the cooperative education center. After the completion of the 4- month internship, students are required to submit a report on the cooperative education to the CE advisor and attend a seminar for report presentation and discussion.

MGT 4946 Prerequisite:	Human Resources Management Internship (240 Hours) Management Major: Concentration: Strategic Human Resources	3 Credits Management
Student will be assigned	to work in organization in the area of human resource manageme v supervisor. Faculty provides oversight of individual field experience	
MGT 4951 Prerequisite:	Strategic Management FIN 3701 Corporate Finance and senior standing	3 Credits
Integration of the stude and business decision s	nt's background, experiences, and previous core business curricul- imulation exercises; development of an effective conceptual app egies, and decision-making; diagnosis, analysis, and solution of ir	roach to integrating ad-
MKT 2280 Prerequisite:	Principles of Marketing MGT 1101 Introduction to Business	3 Credits
Principles and problems in	nvolved in transfer of goods and services from producer to consumer, res, basic product, distribution, price, promotion mix strategies, and	improvement of market-
MKT 3102 Prerequisite:	Integrated Marketing Communications MKT 2280 Principles of Marketing	3 Credits
Strategic use of various personal selling, event sp promotional tools, budge	marketing communication elements including advertising, sales pro- ponsorships and direct marketing to build and maintain brand equit eting and allocation decisions, determining appropriate message st roduct/market, ethical principles in marketing communications, an anal mix.	ty, selection of alternative rategy, developing media
MKT 3515 Prerequisite:	Purchasing and Supply Chain Management MKT 2280 Principles of Marketing	3 credits
Scope and objective of n tion of purchasing depa	negotiation in procurement, participation and relationship of functio rtment, preparation, conduct and recording of negotiations, analy fit, investment and risk, cost principles, techniques of negotiation,	sis of sources of supply,
MKT 3525 Prerequisite:	Sales Management MKT 2280 Principles of Marketing	3 Credits
Management of persona departments of the busin	al selling process in marketing, types of sales organizations and t ness, place of sales research and planning in marketing, selection of cing hiring, training, compensating and supervising of salesman.	

MKT 3530	Consumer Behavior	3 Credits
Prerequisites:	MKT 2280 Principles of Marketing and	
	MGT 2404 Managerial Psychology	

Nature and determinants of consumer behavior, influence of socio psychological factors such as personality, social groups, demographic variables, social class, and culture on the formation of consumers' attitudes, consumption and purchasing behavior, steps in decision-making process starting from problem identification, information and fact finding, evaluation of alternatives, buying decision, and after-purchase evaluation.

MKT 3620	Global Marketing
Prerequisite:	MKT 2280 Principles of Marketing

Principles and operations of international and global marketing concepts, international marketing environment, trade promotion activities of government and private agencies, environmental aspects of international market, financial features and instruments, marketing structure of international trade, terms of trade and credit, international marketing position, foreign market survey, segmentation, targeting and positioning, global market entry strategies, strategic elements of competitive advantage, global marketing mix including product decisions, pricing, channels of distribution, and global marketing communication mixes.

MKT 3627	Sales Promotion	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Principles and practices in guiding management in making the key decisions necessary in sales promotion program selection of the proper sales appeals, sales promotion directed towards company's sales staff, middlemen and ultimate consumers, planning and evaluation of promotional activities, including the merchandising functions.

MKT 3628	Public Relations	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Public relations process and job skills of public relations professionals, role of public relations organizations and role of public relations in organizations, promotional campaigns in which public relations plays a key element, techniques and tools used in the field of public relations.

MKT 3629	Pricing Strategy and Decision	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Strategic pricing concept, cost structure, market-based pricing for profit, pricing influence on purchase decision, role of value in pricing, price sensitivity analysis, price elasticity, competitive pricing, proactive pricing, initial launch of integration of elements in profitable pricing, pricing for new products and different pricing schemes by segments, product-line pricing, pricing as a promotional tool, pricing to leverage competitive advantages, pricing psychology, and pricing ethics.

MKT 3803	Retail Management	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Principles and practices of small business in the area of retail operations, planning, operations and control in various retailing institutions, retailing opportunities and careers with major emphasis on the need to adopt decisions on store location, layout, building, fixtures, equipment and merchandise management, buying, handing, control and pricing, store promotion and customer services.

MKT 3804	Fashion Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Foundation of marketing, its techniques and activities in the fashion industry, fashion marketing environment, fashion marketing mix, branding, visual merchandising, how to develop, analyze and implement brand strategies, buying and merchandising practices, how to plan and execute effective advertising and promotional strategies including public relations and event planning related to fashion products.

MKT 3823	Marketing Channel Strategy and Decisions	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Distribution strategies, structure, functions, types, and operating problems of various institutions in the chain of distribution of different types of products and industries, segmentation for marketing channel design, channel strategy formulation and implementation, scope of distribution strategies including distribution intensity and vertical constraints, and strategic alliances in distribution.

MKT 3830	Direct Marketing	3 credits
Prerequisite:	MKT 2280 Principles of Marketing	

Methods of direct marketing to consumers and businesses without using conventional retailers or sales forces, use of direct marketing techniques to enhance traditional marketing methods, scope of direct marketing, strategic planning, planning and positioning database management, direct mail, telemarketing, catalogs, direct response advertising, and marketing applications and concepts.

Competitive Analysis and Strategy MKT 2280 Principles of Marketing and Completion of at least 90 credits

Analytical concepts in competitive environment, efficient market functioning, industry analysis, strategic groups in industry and global competition, analysis of competitive advantage, vertical linkages, corporate diversification, competitive strategic alliances, rivalry using product positioning, competitive pricing, research and development in competitive environment

MKT 4726	Advertising and Creative Strategy	3 Credits
Prerequisite:	MKT 3102 Integrated Marketing Communications	

Role of creative strategy in advertising and other promotional mix, examination and systematic development of creative brief or copy platform as a means of designing message strategies that evoke consistent value and identity, creative content and creative process beginning with market analysis and target market selection to brand attributes and value propositions to creative execution with emphasis on execution of the "big idea".

MKT 4727	Integrated Media Planning	3 Credits
Prerequisites:	MKT 3102 Integrated Marketing Communications	
	MKT 4726 Advertising and Creative Strategy	

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Nature of media, media business and media industry, roles of and relationships among media planners, buyers and sellers, characteristics of traditional, nontraditional and interactive media, general procedures in media planning, basic and advanced measurements in media analysis, evaluation and selection of media vehicles, strategic media plan (i.e. target audience selection, objective specification, media and vehicle selection, media buying), setting and allocating media budget, and media testing.

MKT 4730	Marketing Management	
Prerequisites:	MKT 2280 Principles of Marketing	
	MGT 2900 Principles of Management	
	Senior standing (106 credits)	

Scope and field of marketing management, need of marketing and product planning for promotion purpose, need of planning for new products to replace existing products, planning for new marketing techniques including pricing and pricing policies, techniques of market survey, its objectives and limitations, management of personal selling, coordination of advertising with all other aspects of marketing, development of policy toward changing items comprising product lines, and control of marketing operation.

MKT 4805	Business-to-Business Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Marketing problems of manufacturers and distributors of industrial goods such as machinery and equipment, raw and semi-fabricated materials, industrial supplies and component parts, industrial marketing system and concepts, demand and product characteristics, product and service definitions, market identification, evaluation and measurement of marketing performance, pricing, promotion and public relations, industrial channel strategy and logistics, performance standards and instruments of control.

MKT 4806	Product and Brand Management	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Management concepts concerning process of new product development including product concept, positioning, and branding used in developing product lines, pricing, distribution decisions in keeping up-to-date to both industrial and consumer goods, product line management, environment factors that have impacts on product, brand and price strategies.

MKT 4807	Agricultural Marketing	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	

Nature and problems of marketing agricultural product with emphasis on Thai agricultural marketing, nature of Thai agricultural products and their marketing systems, survey of local and foreign agricultural marketing, environmental factors of agricultural markets, grading, storing and transporting products, promotional activities and policies of government and private agencies.

3 Credits

3 Credits

MKT 4808 Prerequisite:	Advanced Marketing Presentation MKT 2280 Principles of Marketing Senior standing over 90 credits	3 Credits
Skills of communication and informal presentations for p	d presentation of selling, marketing planning, structuring and de productive outcomes, essential elements of good communication these principles into practice in an interactive session and to deli- nal manner.	and presentation in
MKT 4809 Prerequisite:	Marketing for Services MKT 2280 Principles of Marketing Senior standing over 90 credits	3 Credits
Nature and characteristics of ture and development of ins	f market and consumer behavior for various services, marketing n stitutions involved in selling services such as financial institution, k hotels and various travel industry agencies, comparison between	oanks, insurance com-
MKT 4810 Prerequisite:	Export-Import Management MKT 3620 Global Marketing	3 Credits
Principles and practices of i practices and document pr export-import premiums, lan ment, carrier selection decisi agencies, marketing commu	international marketing management, foreign market exploration, reparation, customs clearances and forwarding practices, custon ided cost calculation methods, commodity classification system of on making, management and organization of freight forwarding a nication for foreign products, management and organization of in al firms, relationship with financial and transportation intermediaries	ns tariffs, duties and the Customs depart- nd customs clearance
MKT 4811 Prerequisites:	Seminar in Marketing MKT 2280 Principles of Marketing MKT 4730 Marketing Management (for Marketing students) Completion of at least 90 credits	3 Credits
	all areas of marketing to play on the problems encountered by field, research, and others.	/ case study analysis,
MKT 4812 Prerequisites:	Individual Research MKT 3530 Consumer Behavior MGT 3940 Business Research Methodology MKT 4855 Research in Marketing Senior standing and Chairperson's approval	3 Credits
Application of theoretical cor	ncepts to real world problems of any organization in a selected ind n will be chosen by the student upon agreement with an instruc pepartment.	
MKT 4826 Prerequisite:	Contemporary Logistics MKT 2280 Principles of Marketing	3 Credits
Modern logistics, application	n of analytical tools useful in logistics, analysis of characteristic rehouse management systems, modes of transportation, fundam	

Modern logistics, application of analytical tools useful in logistics, analysis of characteristics of logistics system elements, inventory and warehouse management systems, modes of transportation, fundamentals of logistics in today's dynamic global landscape, value-added applications of logistics decision-making tools that lead to solid formulations of marketing and competitive advantages in the supply chain of a company.

MKT 4829 Prerequisite:	Marketing Decision Making MKT 2280 Principles of Marketing	3 credits
	Senior standing (112 credits)	

Principles, techniques and actual practices of marketing forecasting, demand analysis and evaluation of market potential with emphasis on market projection, sales budgeting, pricing, production and distribution scheduling as a part of administrative planning for profit, market campaign planning, execution and control.

MKT 4845 IMC Research Prerequisites: MKT 3102 Integrated Marketing Communications MKT 3530 Consumer Behavior MGT 3940 Business Research Methodology ------Aspects of conducting marketing and communications research and presenting research findings, marketing communications research topics such as media effects research, advertising effectiveness research, audience and segmentation research and concept testing, research approaches such as qualitative research, content analysis, survey research, and experimental research. MKT 4848 Contempose, Prerequisite: MKT 2280 Principles of Marketing Completion of at least 90 credits _____ Current issues in marketing such as regional marketing strategies, viral marketing, ethical issues in marketing, and green marketing to create sustainability for business, recent marketing news in different sectors. IMC Campaign Planning

3 Credits

3 Credits

3 Credits

MKT 4849 3 Credits Prerequisites: MKT 4726 Advertising and Creative Strategy MKT 4727 Integrated Media Planning Senior standing (106 credits)

Conceptual synthesis and practical application of business, research, media planning, and creative principles used in the formulation of persuasive messages, development of a complete integrated marketing communications (IMC) campaign for sales promotion, and both written and oral presentation of the campaign.

MKT 4855	Research in Marketing
Prerequisites:	MKT 2280 Principles of Marketing
	MGT 3940 Business Research Methodology
	Completion of at least 90 credits

Principles and methods of marketing research, securing respondents, making test investigation, sampling, collecting data, types and errors of collected data, tabulating and analyzing

information, interpreting findings and stating conclusion, application of research techniques and procedures to the solution of marketing problems: determination of market potential and sales quota, reduction of selling costs, forecasting and appraisal of sales promotional efforts, advertising program and channels of distribution.

MKT 4856	Brand Building Strategy	3 Credits
Prerequisite:	MKT 3102 Integrated Marketing Communications	
	Completion of at least 90 credits	

Brand building and development, concepts, theories, principles and terminology of brand building strategy, brand equity, and integrated marketing communication tools, segmentation, target market identification, positioning, message strategy, media choice, advertising evaluation, aspects of raising brand awareness, creating relevant and distinctive brand identity, building high quality reputation, and shaping desired brand imagery for a brand and brand equity.

MKT 4857	Qualitative Research in Marketing	3 Credits
Prerequisite:	MKT 4855 Research in Marketing	
	Senior standing (106 credits)	

Basic application of qualitative techniques in research including in-depth interviews, focus-group research and applicable psychological measurement techniques to understand the consumers' buying decision making, data collection and analysis through content analysis, discourse analysis and others.

MKT 4897	Marketing Internship	3 Credits
Prerequisite:	MKT 2280 Principles of Marketing	
	Completion of at least 90 credits	

Opportunity for students to experience practical marketing by carrying out work project or full-time work in marketing firms, retail business corporations, governmental entities, private or public organizations under the direct supervision of a designated executive or faculty member. Students will apply theoretical concepts to practice and gain valuable working experience. All internships must be approved in advance.

Seminar in Entrepreneurship MKT 2280 Principles of Marketing Senior standing (106 credits)

Starting and running of a business, legal organization of firm, branding, financing, franchising, location and site selection, employee management, buying and customer support functions, retail environment and application of new technologies, retail marketing mix components (such as branding, merchandising, pricing and margin planning, store management, layout and visual merchandising), internal and external promotions, traits and characteristics of successful entrepreneurs.

MKT 4899	IMC Internship	3 Credits
Prerequisite:	MKT 3102 Integrated Marketing Communications	
	Senior standing (106 credits) and Chairperson's approval	

An off-campus training supervised work experience in the advertising and marketing communication organization. Regular meetings with the internship coordinator, periodic reports, as well as a final paper relating the work experience to the student's course work.

MT 2101	Principles of Technology Management	3 Credits
Management of innovation, challenges of changes in techn	management of technology, management of technology trans nology-based business.	itions, complexities and

MT 2102	General Engineering System	3 Credits

Process of engineering design and solution, representation of technical information, engineering approximations and estimations, dimensions, units, conversion, engineering drawing, material balance, electrical theories, energy, and engineering economics.

MT 2103	Introduction to Innovation Business	3 Credits

Source and nature of innovation, value of experiment, diffusion, new product development, market outcomes, and creative economy concept.

MT 2210 Fundamentals of Financial Management in Technology Development 3 Credits

Principles of corporate finance, financial functions, capital market, financial analysis, investment appraisal methods, sources of long-term financing, cost of capital, capital structure, portfolio theory, working capital management, risk management, and feasibility study of a technology project.

MT 3210 Human Resources in Technology Driven Enterprises 3 Credits

Key organizational behavior, business policy by staffing, reward system, and relationship between productivity, quality of work life and the role of technology in human development.

MT 3211

Organization Behavior in Technology Driven Enterprises 3 Credits

Psychological foundation for understanding individual and organizational behavior, application of principles for managerial problems in technological driven organization, perception, attitudes, motivation, group dynamics, and organizational structure and culture.

MT 3212

Economics for Sciences and Technology Policy

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3 Credits

3 Credits

Economic viewpoints on issues of science and technology, clear picture of how economists approach policy-making within firm and inter-organizational levels, application of economic measures and public policies for science, technology, and innovation, economic development in relation to sustainability.

MT 3220 Technological Marketing Management 3 Credits _____

Principles of marketing and integration of technology factors in market development, customer and market, marketing research, information and technology, development of product and service, product life cycle and marketing mix.

MT 3221	Fundamentals of Communication Technology	3 Credits		
Communication theories, da	ta analysis, computer networks, communication devices, transmission system, and other related communication systems and networks.	media, network		
MT 3230	Production and Project Management	3 Credits		
Production management, asp	pects of managing and controlling a variety of production functions fro ning and scheduling with a balanced treatment of manufacturing and ues.			
MT 3240	Work Analysis and Operation Designs	3 Credits		
Application of ergonomics ar	d work design, utilization of time standard, production planning and cor f suitable working condition, and wage incentive system.	trol, productivity		
MT 3310	Global Business and Intellectual Property	3 Credits		
Effective business management in global level, difference and similarity in macroeconomic factors, regional market conditions and culture that lead to decision of how to manage intellectual property management in business transaction at global setting, licensing technology issues.				
MT 3311	Leadership and Managerial Skill Development	3 Credits		
Introduction to nature of leadership, managerial work and skills, perspectives on effective leadership behavior, theory of motivation, team building, managerial skill development, presentation, and negotiation skills.				
MT 3312	Quality Management	3 Credits		
	ement, quality movements, total quality approach, Six Sigma, ISO, JIT	, quality culture,		
MT 3313	Technical Communications	3 Credits		
Effective technical communi-	cators in a variety of technology fields, communication skills and com presentations on a wide range of audiences, principles and practice interaction within groups.			
MT 3314 Prerequisite:	Introduction to Supply Chain Management MT 3230 Production and Project Management	3 Credits		
Global sourcing, supply chain design, logistics activities, sourcing process, operation, inventory, distribution net- work, and demand management.				
MT 3315 Prerequisite:	Consumer Behavior in Technology Business MT 3220 Technological Marketing Management	3 Credits		
Nature of consumer buying behavior for technological products and services, influence of socio-psychological aspects such as personality, social group and class, demographic variables, and culture toward the technology consumption and purchasing behavior.				
MT 3316 Prerequisite:	Customer Relationship Management in Technology Business MT 3220 Technological Marketing Management	3 Credits		
CRM value chain, customer	portfolio analysis, creating and managing networks, information tech nent, managing the customer lifecycle: customer acquisition, and cus			
MT 3317 Prerequisite:	Introduction to Industrial Marketing MT 3220 Technological Marketing Management	3 Credits		

Marketing concept of manufacturing and distribution of industrial goods such as machinery, equipment, raw material, semi-fabricated material, nature of industrial demand and product characteristics, engineering standard, is including industrial channel.

MT 3312	Quality Management	3 Credits
	nanagement, quality movements, total quality approach, Six Sigma, ISO, iques.	JIT, quality culture,
MT 3313	Technical Communications	3 Credits
Effective technical cor cess, technical writing	nmunicators in a variety of technology fields, communication skills and o g, oral presentations on a wide range of audiences, principles and pract fective interaction within groups.	
MT 3314 Prerequisite:	Introduction to Supply Chain Management MT 3230 Production and Project Management	3 Credits
	ly chain design, logistics activities, sourcing process, operation, invento nagement.	ry, distribution net-
MT 3315 Prerequisite:	Consumer Behavior in Technology Business MT 3220 Technological Marketing Management	3 Credits
Nature of consumer b	buying behavior for technological products and services, influence of sociality, social group and class, demographic variables, and culture toward ting behavior.	
MT 3316 Prerequisite:	Customer Relationship Management in Technology Business MT 3220 Technological Marketing Management	3 Credits
CRM value chain, cus	stomer portfolio analysis, creating and managing networks, information anagement, managing the customer lifecycle: customer acquisition, and	
MT 3317 Prerequisite:	Introduction to Industrial Marketing MT 3220 Technological Marketing Management	3 Credits
Marketing concept of	manufacturing and distribution of industrial goods such as machinery, eq naterial, nature of industrial demand and product characteristics, engir annel.	
MT 3318 Prerequisite:	Technology Retail Business MT 3220 Technological Marketing Management	3 Credits
Essential principles of	technology business in area of retail operations, inventory planning, operations is the second selection, store layout and design, sale equip	
MT 3319 Prerequisite:	Consumer Technology Product and Merchandise Management MT 3220 Technological Marketing Management	3 Credits
Relationship of fast ch	nanges in innovation product's model and reduction in retail price, practi- dise management, demand forecasting, sourcing, inventory planning and ategy.	
MT 3320 Prerequisite:	Organizational Development in Technology Enterprise MT 3211 Organization Behavior in Technology Driven Enterprises	3 Credits
Organizational require	ment for incremental development in order to gain and sustain its cor ng environments in technology business, and organizational development and	
MT 3321 Prerequisite:	Global Innovation and Technological Changes MT 3211 Organization Behavior in Technology Driven Enterprises	3 Credits
Global innovation and countries, linkages am	d impact to society, concept of national innovation system (NIS) of the iong the stakeholders and other technology related parties, highlight of su and Newly Industrialized Economics (NIEs).	

Successful technology brand products positioning, technology product marketing, technology diffusion, technology product development, technology product life cycle, and market conditions. MT 4313 Management of Organization Transformation 3 Credits Prerequisite: MT 2101 Principles of Technology Management			
Prerequisite: MT 2101 Principles of Technology Management Analysis on how organizations make it through difficulty periods, development strategies, different approaches t organizational transformation, comparison of some of the basic strategies used in transforming organizations, variety of theories and researches, conceptualization and integration of the theories. MT 4314 Marketing Communication for Technology Product 3 Credits Prerequisite: MT 3220 Technological Marketing Management Application of the communication theory in marketing practice in the area of technology field in both consumer and industrial market, market structure analysis, media practice, advertising, public relation and other integrated communication tools. 3 Credits MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management 3 Credits MT 4315 Mobile Marketing and Technology 3 Credits MT 4315 Mobile Marketing and Technology 3 Credits MT 4315 Mobile Marketing and Technology 3 Credits MT 4315 Mobile Marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and			
Analysis on how organizations make it through difficulty periods, development strategies, different approaches t organizational transformation, comparison of some of the basic strategies used in transforming organizations, variety of theories and researches, conceptualization and integration of the theories. MT 4314 Marketing Communication for Technology Product 3 Credits Prerequisite: MT 3220 Technological Marketing Management 3 Application of the communication theory in marketing practice in the area of technology field in both consumer and industrial market, market structure analysis, media practice, advertising, public relation and other integrated communication tools. MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management 3 MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management 3 MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management 3 MT equipite: MT 3220 Technological Marketing Management 3 Mobile Marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and theading to the changes in market behavior due to consume			
Prerequisite: MT 3220 Technological Marketing Management Application of the communication theory in marketing practice in the area of technology field in both consumer and industrial market, market structure analysis, media practice, advertising, public relation and other integrated communication tools. MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management New emerging marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and			
Application of the communication theory in marketing practice in the area of technology field in both consumer and industrial market, market structure analysis, media practice, advertising, public relation and other integrated communication tools. MT 4315 Mobile Marketing and Technology 3 Credits Prerequisite: MT 3220 Technological Marketing Management New emerging marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and			
Prerequisite: MT 3220 Technological Marketing Management New emerging marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and			
New emerging marketing concept through consumer mobility device such as mobile phone, fast changes in mobil device capability leading to the changes in market behavior due to consumer adoption of mobile technology, and			
MT 4316Financial Planning and Analysis3 CreditsPrerequisite:MT 2210 Fundamental of Financial Management in Technology Development			
Analysis of financial statement to assess profitability and productivity, interaction between macroeconomics an business resources, business plan and decision.			
MT 4317Business Budgeting and Control3 CreditsPrerequisite:MT 2210 Fundamentals of Financial Management in Technology Development			
Method of arranging corporate budget for managerial planning and control, various types of budgeting such as cas budgeting, capital budgeting, R&D budgeting, production budgeting.			
MT 4318Engineering Economics3 CreditsPrerequisite:MT 3212 Economics for Sciences and Technology Policy			
Application of economics tools for analysis of management decision, demand analysis, demand forecasting, pro- duction cost analysis, market structure and competitive analysis, valuation, and economic uncertainty conditions.			
MT 4319Economics and Technology Development3 CreditsPrerequisite:MT 3212 Economics for Sciences and Technology Policy			
Application of economic principles in the development of new technology and market with emphasis on theoretical model used by innovator such as technology acceptance model.			
MT 4320Principles and Policies of Technology Investment3 CreditsPrerequisite:MT 2210 Fundamentals of Financial Management in Technology Development			
Investment theories and practices in decision making and measuring strategy related to technology research and development, operation strategy, value creation to company profitability, growth and competitiveness under the consideration of financial and forecasting constraints.			
MT 4321 Product Design and Technology 3 Credits Prerequisite: MT 2102 General Engineering Systems			

Transfer of existing technologies with new commercial design ideas, process design, product development, electronics, mechanism and control, structure and material selection.

3 Credits

3 Credits

Systematic approach to change management in corporate performance due to the effect of emerging technologies, process and model such as innovation diffusion in S-curve growth model, disruptive technologies for systematic thinking, problem solving and managing the transition.

MT 4323	Entrepreneurship in Technology Business	3 Credits
Prerequisite:	Required at least 100 Credits	

Practice of business plan, business model, new venture formation, feasibility, and valuation in order to capitalize the opportunities in technology business.

MT 4330	Operation System and Technology	3 Credits
Prerequisite:	MT 3230 Production and Project Management	

Process management, management of technology in operation, capacity planning, location, layout, process flow, facility design, performance measurement and control system, industry management, and strategic operation decision.

MT 4360	Computer Graphic and Application	3 Credits

Theory and practice of 2-D and 3-D computer graphic, storyboard writing, creation of commercial graphic artwork.

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MT 4322

Prerequisite:

Computer Arts and Graphic Design

Process of designing graphic design production, theory of art and design, theory of color, principles of composition, typo-graphic for the basic development of graphic design, image creation and retouching, page layout by using the program of Adobe Illustrator CS with other most popular graphic programs such as Adobe Photoshop CS, graphic design printing work.

MT 4362	Web Design and Web Multimedia	3 Credits
Prerequisite:	MT 4361 Computer Arts and Graphic Design	

Process of web production, conception to web design implementation, concept making, graphic design, GIF animation, web page editing, domain name registration, server rental, transferring the web site to the Internet.

MT 4363	Security Management in Information Technology	3 Credits
Prerequisite:	IT 2231 Introduction to Information Technology	

Adoption of IT security related to organization business objectives, business needs, business processes and structure of the organization, risk management process and IT auditing, development of business continuity plan and disaster recovery plan, process of acquisition, implementation and post-implementation of IT security, maintenance of business continuity, security training and knowledge management.

MT 4364	Marketing Information System and Management	3 Credits
Prerequisite:	MT 3220 Technological Marketing Management	

Use of marketing information system for marketing communication, analysis of customer behavior database, information value from measurement of customer profitability, responsiveness of target customers to marketing communication effectiveness, design of system.

MT 4365	Business Marketing Information System	3 Credits
Prerequisite:	MT 3220 Technological Marketing Management	

Integration of business marketing principles with information system management, organizational purchasing functions, buyer behavior, business marketing program and channel, business marketing database and information system.

MT 4366	Logistic Technology and Operation	3 Credits
Global logistic operation, tech	nologies toward logistic cost and performance.	
MT 4367	Principles of Enterprise Knowledge Management	3 Credits

Concept of knowledge and knowledge management life cycle, knowledge creation and capture, and the technical aspects of knowledge management tools.

Technology Outsourcing MT 4368 3 Credits ------Outsourcing methodology , feasibility of outsourcing Ideas, outsourcing risk analysis, sourcing models, transition to outsourcing, managing ongoing outsourcing relationship, IT outsourcing lifecycle and transition phase, supplier's core capabilities and strategies for sustainability and growth, and governance of outsourcing projects. MT 4369 Technology Value Evaluation Methodology 3 Credits Prerequisite: Required at least 100 Credits and the consent of the instructor Contradiction of technology investment value, conflicting in technology investment payoff, value evaluation both return and risk, research study of the past technology initiative, and various approaches of evaluation methods. 3 Credits MT 4370 **Engineering Statistics** MI 43/0Engineering StatisticsPrerequisite:DA 2103 Principles of Statistics Introduction of statistics techniques, use of language, statistical tools, and computation techniques for analyzing and summarizing the data. MT 4371Advanced Statistics for ResearchPrerequisite:DA 2103 Principles of Statistics 3 Credits Basic concepts of structural equation model, advanced statistics and use of statistical tools and computation techniques for analyzing and summarizing the complicated and multivariate data. MT 4390 Seminar in Management Prerequisite: The consent of the instructor 3 Credits Seminar in the advancement of management science or new researches that may affect modern management theory. The course may be conducted by experts in specialized areas from governmental or private sectors. Students may be organized into groups for special activities on interesting topics. MT 4391Seminar in TechnologyPrerequisite:The consent of the instructor 3 Credits Seminar in the advancement of science and technology or new researches that may affect modern technology development theory. The course may be conducted by experts in specialized areas from governmental or private sectors. Students may be organized into groups for special activities on interesting topics. 3 Credits MT 4400-49 Selected Topic in Management Prerequisite: The consent of the instructor Special selected topics in management that the department and the instructors think appropriate for students to further study. The area of study depends on the interest of the instructor and the students and the topic can vary from one semester to another. MT 4450-99Selected Topic in TechnologyPrerequisite:The consent of the instructor 3 Credits _____ Special selected topics in science and technology that the department and the instructors think appropriate for students to further study. The area of study depends on the interest of the instructor and students and the topic can vary from one semester to another. Fundamentals of Music Theory Non-credit MU 0020 Basic concepts of music, notation, major and minor scales, key signatures, intervals and their inversions, tempo, rhythm, meter, division of the beat, simple and compound time signatures, triads, seventh chords, inversions and their symbols, and diatonic chords in major and minor keys. 2 Credits MU 0101 Ear Training I _____ Development of basic ear training skills through singing and dictation - songs, intervals, scales, chords, elementary harmonic motion and rhythmic patterns. MU 0102 Ear Training II Prerequisite: MU 0101 Ear Training I 2 Credits

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Further development of ear training skills through increasing complex singing and dictation exercises.

MU 0103	Ear Training III	2 Credits	
Prerequisite:	MU 0102 Ear Training II		
	raining skills through increasing complex singing and dictation exercises.		
MU 0104	Ear Training IV	2 Credits	
Prerequisite:	MU 0103 Ear Training III		
	aining skills through increasing complex singing and dictation exercises.		
MUOIII	Turbula I		
MU 0111 Prereguisite:	Ear Training l Satisfaction score on theory entrance examination	1 Credits	
or	MU 0020 Fundamental of Music Theory		
	ding, singing on simple melodic line, intervals, chords, and scales in b	asic rhythm pat-	
terns.			
MU 0112	Ear Training II	1 Credits	
Prerequisites:	MU 1111 Theory of Western Music I		
	MU 0111 Ear Training I		
Advanced ear training, sight	reading, singing any music in written notation form precisely, dictation onic progression and rhythmic study in classical and contemporary music.	studies, intervals,	
MU 1111	Theory of Western Music I	3 Credits	
Prerequisite:	Satisfaction score on theory entrance examination		
to basic musical form, cade	tals of music (scales, keys, intervals, chords, rhythm and meter) with ences, non-chord tones, modes, dominant and diatonic seventh cho nic function, part-writing, harmonization and score analysis.		
MU 1112	Theory of Western Music II	3 Credits	
Prerequisites:	MU 1111 Theory of Western Music I		
Jazz: Major key harmony: se and motif development. Pri duction to subdominant mir relationship. Classic: Chromatic harmonic	function: secondary dominants, modulation, mode mixture and the N writing skills, harmonization and score analysis.	harmony; intro- melody/harmony	
MU 1401	Computer for Musicians	3 Credits	
Introduction to the practice of	of music technology. Overview of all aspects of the previous and current nts to evaluate their own future technological needs.	technology with	
MU 1701	Jazz Music Appreciation	3 Credits	
Jazz music through listening techniques to recognize various elements, styles, genres, forms, and textures. Under- standing and appreciation of jazz through exposure to many famous performers and a wide variety of styles that are significant in its development.			
5		of styles that are	
MU 1702	Popular Music Appreciation	of styles that are 3 Credits	
Modern popular music throu tures. Understanding and ap		3 Credits forms, and tex-	
Modern popular music throu tures. Understanding and ap popular music styles: Blues, Rc	Popular Music Appreciation ugh listening techniques to recognize various elements, styles, genres, opreciation of popular music through exposure to many famous perfo ock, Pop, R&B, Funk, Latin, Rap, and all the latest forms of popular music.	3 Credits forms, and tex- rmers. Survey of	
Modern popular music throu tures. Understanding and ap	Popular Music Appreciation ugh listening techniques to recognize various elements, styles, genres, opreciation of popular music through exposure to many famous perfo	3 Credits forms, and tex-	
Modern popular music throu tures. Understanding and ap popular music styles: Blues, Rc MU 2101 Prerequisite:	Popular Music Appreciation ugh listening techniques to recognize various elements, styles, genres, opreciation of popular music through exposure to many famous perfo ock, Pop, R&B, Funk, Latin, Rap, and all the latest forms of popular music. Orchestration	3 Credits forms, and tex- rmers. Survey of 3 Credits	
Modern popular music throu tures. Understanding and ap popular music styles: Blues, Ro MU 2101 Prerequisite: Basic principles and technique	Popular Music Appreciation ugh listening techniques to recognize various elements, styles, genres, opreciation of popular music through exposure to many famous perfo ock, Pop, R&B, Funk, Latin, Rap, and all the latest forms of popular music. Orchestration MU 1112 Theory of Western Music II es used in the arrangement and composition of music for the symphonic or	3 Credits forms, and tex- rmers. Survey of 3 Credits chestra.	
Modern popular music throu tures. Understanding and ap popular music styles: Blues, Rc MU 2101 Prerequisite:	Popular Music Appreciation ugh listening techniques to recognize various elements, styles, genres, opreciation of popular music through exposure to many famous perfo ock, Pop, R&B, Funk, Latin, Rap, and all the latest forms of popular music. Orchestration MU 1112 Theory of Western Music II	3 Credits forms, and tex- rmers. Survey of 3 Credits	

Physical skills involved with conducting using the baton and hands. Methods of choral and instrumental conducting will be explored and practiced using members of the class as performers as well as existing musical ensembles.

Prerequisites:	MU 1111 Theory of Western Music I	
and motif developm duction to subdomi relationship. Classic: Chromatic h	nony: secondary and extended dominant relationships, a nent. Principles of linear harmonic continuity and guide nant minor. Blues theory and chord progressions. Melod armonic function: secondary dominants, modulation, mo of part-writing skills, harmonization and score analysis.	tone lines. Minor key harmony; intro- lic rhythm, form, and melody/harmony
MU 1401	Computer for Musicians	3 Credits
	practice of music technology. Overview of all aspects of thing students to evaluate their own future technological needs	
MU 1701	Jazz Music Appreciation	3 Credits
	listening techniques to recognize various elements, style iation of jazz through exposure to many famous performe lopment.	
MU 1702	Popular Music Appreciation	3 Credits
tures. Understanding	isic through listening techniques to recognize various el and appreciation of popular music through exposure t Blues, Rock, Pop, R&B, Funk, Latin, Rap, and all the latest form	to many famous performers. Survey of

Theory of Western Music II

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MU 2101 Prerequisite:	Orchestration MU 1112 Theory of Western Music II	3 Credits
	hniques used in the arrangement and composition of music for the	 e symphonic orchestra.
MU 2102 Proroquisito:	Conducting MUL1112 Theory of Western Music II	2 Credits

MU 2102	Conducting	2 Credits
Prerequisite:	MU 1112 Theory of Western Music II	

Physical skills involved with conducting using the baton and hands. Methods of choral and instrumental conducting will be explored and practiced using members of the class as performers as well as existing musical ensembles.

MU 2113	Theory of Western Music III	3 Credits
Prerequisites:	MU 1112 Theory of Western Music II	

Jazz: Analysis and application of major and minor key harmony; subdominant minor and modal interchange; chord scale theory. Review of melodic construction and melody/ harmony relationship; individual note analysis of melodies. Substitute dominant and related II-7 chords; diminished chord patterns; modulation.

Classic: Augmented Sixth chords, enharmonic functions, altered dominants, common-tone diminished seventh chords, chromatic mediants, coloristic chord successions and tonal harmony of the late 19th century. Further development of part-writing skills, harmonization and score analysis.

Prerequisite:	MU 2113 Theory of Western Music III
Jazz: Principles of modern of	hord progression: deceptive resolutions of secondary dominants; dominant seventh

chords without dominant function; contiguous dominant motion. Review of melodic construction, form, and melody/ harmony relationship; modal interchange; pedal point and ostinato; modal harmony and modal composition; compound chords.

Classic: Basic principles and techniques of 20th century art music: modes, artificial scales, free tertian and nontertian harmony, polytonality, rhythmic methods, formal process, intervallic organization, serial procedures and an introduction to recent developments. Further development of score analysis skills and analytical skills required for non-tonal music.

MU 2211

MU 2114

MU 1112

3 Credits

3 Credits

History of Western music f and theoretical concepts of symphonic poem, characte	rom the middle Baroque era to the end of 19th century with emph of the eras, development of genres such as sonata, string quartet, r piece, Lied, and opera, comparisons of aestethics and idea of mus rumental music and virtuosism.	concerto, symphony,
MU 3501 Prerequisite:	Ensemble III MU 2502 Ensemble II	2 Credits
	nniques as ensemble players and study of selected repertoire to perform	ance standard.
MU 3502 Prerequisite:	Ensemble IV MU 3501 Ensemble III	2 Credits
	nniques as ensemble players and study of selected repertoire to perform	ance standard.
MU 3731	Introduction to Music Education	3 Credits
Basic knowledge and concer in elementary, and seconda	ot of music education, music teaching methods, music curriculum and m ry levels, higher education, and non-formal education in ASEAN and oth eview of music education research and articles, and music instruction o	er regions, issues and
MU 4000	Selected Topics in Music Performance	3 Credits
	o the latest development in the world of music	
MU 4103 Prerequisite:	Form and Analysis MU 2113 Theory of Western Music III MU 2114 Theory of Western Music IV (for Music Performance)	3 Credits
	significant forms-Binary, Rounded Binary, Ternary, Rondo, Sonata, a in Western art music.	nd Fugue. Harmonic
MU 4112 Prerequisite:	Arranging MU 2113 Theory of Western Music III	3 Credits
	nstruments in both large and small ensembles, and arranging mu	isic for different en-
MU 4221 Prerequisite:	History of Western Music III MU 3222 History of Western Music II	2 Credits
History of Western music	from the end of the 19th century to the present era, comparison atonality, serialism, minimalism, aleatory music, and electronic mu z.	
MU 4223	Music in Human Life	3 Credits
Traditions, belief systems, a the music of contrasting effective stress of the systems of the sy	and practices of world cultures with regards to music. Comparative s thnic groups in relation to different social contexts. Thematic musica bus, and cross-cultural issues in human life.	
MU 4501 Prerequisite:	Ensemble V MU 3502 Ensemble IV	2 Credits
	niques as ensemble players and study of selected repertoire to perform	ance standard.
MU 4502 Prerequisite:	Ensemble VI MU 4501 Ensemble V	2 Credits
	niques as ensemble players and study of selected repertoire to perform	ance standard.

2 Credits

MU 3222History of Western Music IIPrerequisite:MU 3221 History of Western Music I

MU 7111	Concert Attendance I-VIII	Non-credit
Attendance in at lea	ist two music events per semester represent or organized by trts, recitals, workshops and guest lectures.	
NB 1202	Anatomy	3 credits
Physical features, stru relationship between	ucture and position of cells, membrane and organs, both in ma each section of the human structure and the physical system nts and application of basic human structures for clinical nursing pr	acro and micro anatomy levels, n, growth and development of
NB 1203	Physiology	3 credits
Functions and relatio	nship of body parts and organs in human body systems includin ntain body balance, lab experiments and application of knowledge f	ng the mechanical adjustments
NB 1205	Biochemistry	3 credits
Basic biochemical ch mechanisms of enzy proteins and their m	naracteristics and reactions of life occurred at the molecular ymes, bioenergetics and thermodynamics, nucleic acids, carbo netabolisms, steps of gene regulation and protein synthesis, n ficiency of vitamins and minerals, importance of hormone and m ce	level including properties and ohydrates, lipids, amino acids, utritional biochemistry, clinical
NB 1207	Microbiology and Parasitology	3 credits
Essence of biology, i cover bacteriology, n	identification and classification of microorganisms that cause c nycology, virology, and parasitology, including life cycles, mo ncepts of immunology	communicable diseases which
NB 1210	Pathophysiology	3 Credits
	pathophysiology including alteration in functioning of human sys physiological balance	
NB 1212 Prerequisite:	Nutrition for Healthy Life Style NB 1205 Biochemistry	3 credits
Basic principles of nu ments, nutritional pro tion knowledge to pr	tritional science and therapeutic nutrition, major nutrient, nutrien oblems, energy balance, food exchange lists, hospital diets, mod omote health and disease management throughout the human l nds in nutrition and community food supply for health	nt standards, nutritional assess- dified diets and applying nutri-
NB 2209	Pharmacology	3 Credits
effects, precautions, o	principles of drug actions, drug administration, principles of dru drug calculation, measurement and pharmaceutical preparations the National List of Drug concerning adverse drug reactions	
NB 2211	Multiculturalism in Health Care	1 credit
,	ations related to health and illness, importance of cultural consi ng cultural sensitivity in nursing practice in different scenarios	
NB 2212	Psychology and Mental Health	2 Credit
	ogy and mental health, evolution of mental health and psychiati ion, intervention for maladaptive behaviors, and rehabilitation for community	ric care, mental health promo-
NB 2213	Health Innovation and Knowledge Management	1 Credit
	based on scientific approach, nursing theory, promotion of hea	

Innovation initiatives based on scientific approach, nursing theory, promotion of health and well-being, systematic try-out method for innovative invention and management of knowledge for networking and public sharing

NB 4201	Entrepreneurship in Health Care	3 Credits
	o of health care management, factors influencing health care business presentation	s success, devel-
NE 3501	Spa and Aroma Therapy	3 credits
Overview of the history and	l principles of spa and aroma therapy, related public health laws and r anatomy and physiology, aroma massage techniques, health conseque herapist	
NE 3502	Massage as an Alternative Health Care	3 credits
Basic concept of alternative hand massage, head massage	health care and classification of alternative health care, face massag ge, anatomy and physiology related to massage, advantage and contra s and alternative health care practices.	
NE 3505	Oriental Exercise for Health	3 credits
	ed to exercise, practice of Yoga, Taichi, long wooden stick exercise, a	nd Thai classical
NE 4502	Adolescent Health	3 credits
Male and female adolescen	t health issues, gender adaptation, life-style, behaviours, self-image, r ostance abuse, violence issues, and design of adolescent health promotion i	
NM 3401 Prerequisite:	Production for Communication Tools CA 1002 Introduction to Photography and Cinematography	3 Credits
Audio production, theory of	sound, recording techniques, digital audio workflow, mix down theory boting board and vocabulary, cinematography, and basic video editing.	and techniques,
NM 3402 Prerequisites:	Film and Time-based Media Production CA 2007 Introduction to New Media and Broadcasting NM 3401 Production for Communication Tools	3 Credits
Visual language and aesthe	tics of cinema, digital media, cinematic time and space, continuity and workflow for pre-production, production, and post-production.	d progression of
NM 3404	Multimedia Editing	3 Credits
	and characterization of digital images, basic video editing, visual effec	ts and composi-
NM 3410 Prerequisite:	New Media Application CA 2013 Utilization of Multimedia Tools	3 Credits
	characteristics, new media technology trends, development of new media communication.	edia application,
NM 3411 Prerequisite:	Advanced Photography and Digital Imaging CA 1002 Introduction to Photography and Cinematography	3 Credits
	hy, technical production using computer image processing, setting up	for studio and
NM 3412 Prerequisite:	Creativity and Innovation CA 2013 Utilization of Multimedia Tools	3 Credits
	d non-linear game narratives, interactivity, web architecture, narrative space	principles.
NM 3414 Prerequisite:	New Media Journalism CA 1006 Introduction to Journalism and Mass Communication	3 Credits
	arious platforms, issues facing current journalists interviewing, reporting	, reviewing con-

New journalistic media in various platforms, issues facing current journalists interviewing, reporting, reviewing content, layout and user-friendliness of existing electronic publications.

NM 3417	Computer Graphics for Communication Design	3 Credits
	mposite application, aesthetic value in composition of scenes.	
NM 3418	Interactive Media Art	3 Credits
Prerequisite:	CA 2013 Utilization of Multimedia Tools	
	, web function and content delivery, basic web programming, design v	with interactivity
NM 3419	Selected Topics in New Media	3 Credits
	pment in communication, new media effects on society, culture, and peopl	e.
NM 3420	Audience Context Analysis	3 Credits
Prerequisite:	CA 2016 Psychology for Persuasive Communication	
	lerstanding context of communication, media literacy, post-modern co nalysis.	oncepts, popular
NM 4405	Broadcast and New Media Management	3 Credits
Prerequisites:	CA 2007 Introduction to New Media and Broadcasting	
	NM 3401 Production for Communication Tools	
	new media, basics of channel content management, programming,	the business of
NM 4406	Broadcast Media Production and Directing	3 Credits
Prerequisite:	NM 3402 Film and Time-based Media Production	
Principles of directing, conce	epts of vocal and visual aspects of performance, requirements and c naging production, adaptation of content across media.	haracteristics of
NM 4407	Seminar in Broadcast and New Media	3 Credits
Prerequisites:	NM 3401 Production for Communication Tools	
	NM 3402 Film and Time-based Media Production	
	considerations in new media communication, issues that impact broad	cast and digital
NM 4408	Studio Workshop	6 Credits
Prerequisites:	NM 3401 Production for Communication Tools	
	NM 3402 Film and Time-based Media Production	
Entire work process of studio	production. Students will be required to create a complete work in th ogram.	he form of film,
NM 4413	Advanced Multimedia Editing	3 Credits
Prerequisite:	NM 3404 Multimedia Editing	
	chniques, filming techniques for visual effects and post-production, cor	mposition of 3D
NM 4414	Sound for Video Production	3 Credits
Prerequisite:	NM 3402 Film and Time-based Media Production	5 Creates
	ge of microphone, recording in studio, recording outdoor, automated d I mastering.	ialogue replace-
NM 4417	Media Content Analysis	3 Credits
Prerequisite:	CA 2016 Psychology for Persuasive Communication	
	nderstanding media roles, characteristics of social groups, social stru	cture, and new

Content analysis methods, understanding media roles, characteristics of social groups, social structure, and new media effects.

Utilizing of multiple new media platforms, developing interactive new media environments for effective communication.

NM 4419 Prerequisite:	4419 Utilization of New Media Programming CA 2013 Utilization of Multimedia Tools	3 Credits
Utilizing programs for t	he creation of new media communications.	
NM 4420 Prerequisite:	Studio Internship (200 Hours) CA 2013 Utilization of Multimedia Tools	1 Credits

Understanding new media characteristics, new media technology trends, development of new media application, and effective usage of new media communication.

NS 1307	Foundation of Professional Nursing I	2 Credits
Prerequisite:	NB 1202 Anatomy	
	NB 1203 Physiology	

Origin of nursing profession, nursing theories, application of self-care conceptual framework, family-centered and holistic approaches through nursing process to assist clients to meet their needs, integration of conceptual foundation and essence of nursing care in every stage of care management and clinical nursing therapeutics for clients with alteration in vital signs and promotion of self-care

NS 1310	Professional Socialization I	2 Credits
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Professionalism, values in nursing, current national health system, ethical principles in nursing profession, virtue ethics, professional nursing Acts, human rights, patient rights in health care, forensic nursing, public health law and regulations including ethical issues and legal liability

NS 1311

Scientific Nursing Approach and Holistic Health Assessment 3 Credits

Application of nursing process for clients based on self-care conceptual framework, demonstration and practice of health assessment using holistic approach including physiological, sociological, psychological, and spiritual dimensions

NS 1312	Health Promotion Throughout Lifespan	2 Credits

Health promotion concepts, theoretical framework, methods, healthy people 2020 policy, bio-psycho-social development and health promotion throughout lifespan including discussion of current issues, health promotion strategies and health promotion innovations

NS 1313	Foundation of Professional Nursing II	2 Credits
Prerequisite:	NB 1202 Anatomy	
	NB 1203 Physiology	

Application of self-care conceptual framework, family-centered and holistic approaches through nursing process to assist clients to meet their needs, integration of conceptual foundation and essence of nursing care in every stage of care management, clinical nursing therapeutics, nursing management for clients with special needs for medication, diagnostic test and other nursing procedures

NS 1403 Prerequisite:	Nursing Experience I NS 1307 Foundation of Professional Nursing I	1 Credit
5	e knowledge, foundation of nursing, nursing process, holistic approac gh nursing procedures practice in the laboratory	h, and self-care
NS 1404 Prerequisite:	Nursing Experience II NS 1313 Foundation of Professional Nursing II	1 Credit

Integration of basic science knowledge, foundation of nursing, nursing process, holistic approach, and self-care conceptual framework through practicing nursing procedures in the laboratory

Alteration in Adult Health & Nursing I

3 Credits

1 Credit

Nursing management of adults with alterations in integumentary system, sensory system, digestive system, respiratory system, and cardiovascular system, application of self-care conceptual framework, family-centered and holistic approaches in assisting adults to reach the optimal level of wellness

NS 2311	Alteration in Adult Health & Nursing II	3 Credits
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Nursing management of adults with alteration in cell growth and differentiation, immune regulation and hematological system, reproductive system, urinary system, musculoskeletal system, endocrine system, application of self-care conceptual framework, family-centered and holistic approaches assisting adults in reaching optimal level of wellness

NS 2312	Gerontology Nursing

Concept and theory of elderly, bio-psycho-social changes, major health problems, holistic nursing management for elderly, community health care resources, and end of life care, application of self-care conceptual framework, family centred and holistic approaches to assist elderly people in reaching their optimal level of wellness through nursing process

NS 2320	Family-Centered Care for Infant, Child, and Adolescent I	2 Credits
tual framework, growth and	care and holistic approach for infant, child, and adolescent, base d development assessment, well-baby care, minor health probler the hospital, family and community, including current adolesce	ns and injured infants,
NS 2321 Prerequisite:	Family-Centered Care for Infant, Child and Adolescent II NS 2320 Family-Centered	3 Credits
	dolescent I, Health problems of infant, child, and adolescent, nur amily needs based on self-care conceptual framework	sing care for individual
NS 2322	Holistic Childbearing and Family Nursing I	3 Credits
	dbearing family, reproductive and sexual health, genetic and pre rowth and development of fetus, physiological and psychological	

health promotion and self-care during pregnancy, fetal well-being assessment, health education for childbearing family

NS 2323	Holistic Childbearing and Family Nursing II	2 Credits
Prerequisite:	NS 2322 Holistic Childbearing and Family Nursing I	

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Factors influencing labor, phases, stages, and mechanism of labor, holistic nursing for women in normal childbearing during each labor phase, postpartum care, initial newborn assessment, immediate nursing care for newborn

NS 2418	Clinical Practicum for Professional Nursing Foundation	2 Credits
Prerequisite:	NS 1307 Foundation of Professional Nursing I	
	NS 1313 Foundation of Professional Nursing II	
	NS 1403 Nursing Experience I	
	NS 1404 Nursing Experience II	

Clinical nursing experiences in health settings, application of basic nursing knowledge and skills in providing essential nursing care to meet the clients' needs, application of self- care conceptual framework, family- centered and holistic approaches in nursing process, team nursing communication and documentation.

NS 2419	Clinical Practicum in Adult Health Nursing I	2 Credits

Clinical practice in the care of adults and elderly people with alterations in integumentary system, sensory system, digestive system, respiratory system, and cardiovascular system by application of self-care conceptual framework, family-centered and holistic approaches through nursing process and comprehensive health approach

NS 2420 Clinical Practicum in Adult Health Nursing II

2 Credits

..... Clinical practice in the care of adults and elderly people with alterations in cell growth and differentiation, musculoskeletal system, immune regulation and haematological system, reproductive system, urinary system, and endocrine regulation, the application of self-care conceptual framework, family-centered and holistic approaches through nursing process and comprehensive health approach

1 Credit

Application of holistic childbearing approach, self-care conceptual framework and nursing process in providing care for uncomplicated pregnant women and families, health education to promote well-being for women and fetus during antepartum period, application of cognitive, affective, psychomotor skills, and critical thinking in practicing in antenatal care unit

NS 2423	Family-Centered Care for Infant, Child, and	
	Adolescent Nursing Practicum I	1 Credit
Prerequisite:	NS 2320 Family-Centered Care for Infant, Child, and Adolescent Nursing I	

Clinical nursing experiences in healthcare setting based on self-care conceptual framework, family centered and holistic approaches, and the integrating knowledge of wellness, health promotion and illness prevention, pediatric assessment, growth& development and nursing process for caring infants, children, adolescents and their families.

NS 3316	Critical care nursing	2 Credits
Nursing managemen	for clients with critical health problems, trauma, emergency situations, neurole	ogical problem,

Nursing management for clients with critical health problems, trauma, emergency situations, neurological problem, burns, application of self-care conceptual framework, palliative care family-centered and holistic approaches in assisting clients to reach the optimal level of wellness

NS 3322	Bio-Behavioral Psychiatric Nursing	3 Credits
Prerequisite:	NB 2212 Psychology and Mental Health	

Theoretical perspectives, scientific knowledge, and principles of psychiatric nursing, nursing process and self-care conceptual framework in nursing management for individuals, families, and communities with physical and mental disorders, nursing care plan and nursing intervention for mental health promotion, maintenance, and restoration

NS 3323	Community Focused Nursing I	2 Credits

Concepts and evolution of community health nursing, roles and functions of community health nurses, health care system including concept of primary health care and quality of life, health care reform, national health development plans and current health policy, health economics and national health insurance system, environmental health and contemporary public health problems.

NS 3324	Disaster Nursing	1 Credit	
and the second s	ion and phase of disaster occurrence, disaster preparedness, disaste ster site, local and international resources for disaster responses and mitiga	3	
NS 3325 Prerequisite:	Holistic Childbearing and Family Nursing III NS 2323 Holistic Childbearing and Family Nursing II	3 Credits	
Identification of high risk in childbearing, pregnancy loss and grief, holistic nursing for women with complications in antepartum, intrapartum, and postpartum or for women with obstetric maneuver including holistic nursing intervention for high risk newborn, neonatal resuscitation, and ethical issues in maternity nursing			
NS 3326 Prerequisite:	Nursing Inquiry I BG 1301 Fundamentals of Statistics	2 Credits	
Principles of research methodology, conceptualization and exploration of the nursing profession and/or health is- sues conducive to nursing inquiry, and writing research proposals derived from nursing and health phenomena			
NS 3400 Prerequisite:	Mental Health and Psychiatric Nursing Practicum NS 3322 Bio-Behavioral Psychiatric Nursing	2 Credits	
Integration of theory and clinical practice in health care settings, promotion of mental health through primary preven- tion, intervention in maladaptive behaviors, and rehabilitation of chronic disorders for individual, family, and com- munity, utilization of the nursing process and self-care conceptual framework in care management			

NS 3401	Nursing Inquiry II	1 Credits
Prerequisite:	NS 3326 Nursing Inquiry I	

Conducting nursing research including data management, data analysis, discussion of research findings and implication to nursing practices

2 Credits

Application of holistic childbearing approach, self-care conceptual framework and nursing process for high risk pregnant women during antepartum, intrapartum and postpartum periods, health education to promote well-being for women and newborn with complication, application of cognitive, affective, psychomotor skills, and critical thinking in practicing in antenatal care, labor room, and postpartum units.

NS 3423	Family-Centered Care for Infant, Child, and	
	Adolescent Nursing Practicum II	2 credits
Prerequisite:	NS 2321 Family-Centered Care for Infant, Child, and Adolescent II	
	NS 2423 Family-Centered Care for Infant, Child, and Adolescent	
	Nursing Practicum I	
	-	

Application of holistic approach and family-centered care for infant, child and adolescent nursing based on self-care conceptual framework, nursing process and knowledge of illness in clinical nursing practice to provide holistic care for infant, child, adolescent, and family

NS 3424	Critical Care Nursing Practicum	2 Credits
Clinical practice in a	taring clients with critical health problems, traumatic or amorganey si	ituations nourological prob

Clinical practice in caring clients with critical health problems, traumatic or emergency situations, neurological problems and burns, application of self-care conceptual framework, palliative care, family-centered and holistic approaches through nursing process and comprehensive health approach

NS 3425	Holistic Childbearing and Family Nursing Practicum II	2 Credits
Prerequisite:	NS 2422 Holistic Childbearing and Family Nursing Practicum I	

Application of holistic childbearing approach, self-care conceptual framework for uncomplicated pregnant women during intrapartum and postpartum period, health education to promote well-being for women and newborn, family planning, application of cognitive, affective, psychomotor skills, and critical thinking in practicing in labor room and postpartum unit

NS 4308	Nursing Leadership and Management	3 Credits

Contemporary roles required in nursing administration and team nursing, organizational structure, leadership, decision making process, human resource management, financial management including cost effectiveness analysis, quality management, hospital accreditation, risk management, patient safety goals, quality team development and application nursing informatics in management

NS 4320	Community Focused Nursing II	3 Credits
Prerequisite:	NS 3323 Community Focused Nursing I	

Concepts of family as client, family health, family nursing process and home visit, epidemiology, concepts of community as partner, community health study process, health education, home health care, school health, dental health, occupational health, international health and public health laws and regulations.

NS 4322	Professional Socialization II
Prerequisite:	NS 1310 Professional Socialization I

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Seminar on challenges and trends in nursing profession, analysis of current situations in healthcare environment and policies, political and social issues influencing nursing profession, nursing image, nursing shortage and employment opportunity in dynamic global society

NS 4323	Therapeutic Health Assessment	2 Credits
Prerequisite:	NS 1311 Scientific Nursing Approach and Holistic Health Assessment	

Progressive physical and mental health assessment, laboratory investigations and interpretation of the results, differential diagnosis, primary medical treatment and nursing care, minor surgery, common drug usage and prescription according to the Professional Nursing Acts, and referral system

NS 4325	Nursing Informatics	1 Credit
Prerequisite:	BG 2301 Information Technology for Nurses	

Essence of nursing informatics, the current information technology applicable to global health and consumer, the issues of utilities nursing informatics in clinical management, administration, education, and research, computer based patient record, and hands-on experience with nursing informatics system of health care setting.

Clinical practice in nursing service management and quality health team, infectious control, risk management, total quality management; leadership, team participation, problem solving and decision making in incident analysis and development of continuous quality improvement project including application of nursing informatics in nursing management

NS 4417	Community Focused Nursing Practicum	3 Credits
Prerequisite:	NS 4320 Community Focused Nursing II	

Application of theoretical knowledge and concepts of community focused nursing to work with individual, family and various groups of people in community settings, apply family nursing process in home care and long term care, practice with interdisciplinary health care team and collaborative partnership with community people, using the complete community study process to identify health needs, health promotion, prevention of illness, and promotion of quality of life for entire community

NS 4418	Therapeutic Health Assessment Practicum	1 Credit
Prerequisite:	NS 4323 Therapeutic Health Assessment	

Clinical practice in core competency and roles of nurses in progressive health assessment, clinical practice of history taking, lab investigation and interpretation of the results, differential diagnosis, primary medical treatment, prevention, health promotion and referral skills for proper management according to the Professional Nursing Acts

NS 4419	Comprehensive Nursing Practicum	2 Credits
Prerequisite:	All nursing courses must be completed	
		12.

Comprehensive clinical experiences in healthcare settings based on the selected area of students' interests, preparations of professional employment for local and international health care services

PC 3301	Art and Literature Appreciation	3 Credits
Prerequisites:	CA 1001 Introduction to Communication	
	CA 2015 Introduction to Performance Communication	

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Aesthetic perspective, artistic styles, visual elements, performing arts, entertainment media, literature, fine arts, music and film.

PC 3302	Principles of Performance Design	3 Credits
Prerequisites:	CA 1001 Introduction to Communication	
	CA 2015 Introduction to Performance Communication	

Basic elements of arts and design in performance, basic designing such as point, line, form, shape, space utilization, color, pattern, texture, balance, proportion, rhythm, emphasis, unity including the basic sketch design, conveying ideas, process of designer working in costume, scenic, lighting design as well as unity of visualization in performance communication.

PC 3303	Performance Communication on Popular Culture	3 Credits
	o the study of popular culture, characteristics of popular culture nance communication, forms in relation to the artistic, historic, an lance, and fashion.	

PC 3316	Event Strategic Planning	3 Credits
	vents in the market place, key elements in planning and managing a significance of marketing, sponsorship and promotion of events, on-sing health and safety aspects.	

PC 3305	Script Writing and Analysis	3 Credits
Prerequisites:	CA 1001 Introduction to Communication	
	CA 2015 Introduction to Performance Communication	

Principles of storytelling for performance, elements of script and story-telling, creating theme, plot and story as well as creating characters, creating conflicts for continuity story, use of dramatic and character's actions to tell the story, critical analysis of script structure, genre, theme, style, sub-text meaning, dramatic event, and point of view of the story-teller, actor, director, designer, and audience including critique writing.

PC 3306 Prerequisite:	Marketing Management for Performance Project AD 3101 Principles of Marketing Communication	3 Credits
Marketing for performa	nce, principles of financial and budgeting management, writing a pro ping communication plan for marketing and evaluation.	oposal, setting up market-
PC 3307 Prerequisites:	Visualization of Stage/ Event CA 2015 Introduction to Performance Communication PC 3301 Art and Literature Appreciation	3 Credits
Principles of visualization concept of scenery, pro-	on on stage/event, function, consistency of performance visualization op. costume and lighting, introduction to performance / event art di cess, conceptualize and stage visualization interpretation.	
PC 3308 Prerequisite:	Performance/Event Criticism PC 3301 Art and Literature Appreciation	3 Credits
Principles of criticism in	performing arts/event, interdisciplinary of performing arts, definitio tives, theatre critical writing and analysis.	ons and elements, critical
PC 3320 Prerequisite:	Script Writing and Adaptation in Thai PC 3305 Script Writing and Analysis	3 Credits
Script writing in advan	ced, selecting story for script adaptation, dimensions and perspecti urpose, revising script in Thai for theatre, film and TV.	ves for adaptation, script
PC 3321 Prerequisite:	Script Writing and Adaptation in English PC 3305 Script Writing and Analysis	3 Credits
Script writing in advan	ced, selecting story for script adaptation, dimensions and perspecti urpose, revising script in English for theatre, film and TV.	ves for adaptation, script
PC 3322 Prerequisite:	Acting for Personality/ Social Interaction CA 1001 Introduction to Communication	3 Credits
Acting Adaptation for analysis, human nature	personality development, mental and physical preparation, self- , human perception, law of attraction, self –esteem, self-confidenc ic speaking, wardrobe and make-up for different occasions.	
PC 3323 Prerequisite:	Fundamentals of Acting CA 2015 Introduction to Performance Communication	3 Credits
	ding the relation between vocal and physical expression for perfo	ormance purpose includ-

Basic acting, understanding the relation between vocal and physical expression for performance purpose including communication, physical and vocal preparation, relaxation, concentration, body movement, space usage for performance, imagination, emotion, creating character, character interpretation, creative movement, awareness, objective of character for play, improvisation skill, scene interpretation, and integration of vocal and physical skill for performance.

PC 3324	Sound for Performance/ Event	3 Credits
Prerequisite:	CA 2015 Introduction to Performance Communication	

Basic sound utilization and sound management for performance/ event production, principles of sound classification, sound acoustic, influence conditions of sound quality, sound equipment, microphone allocation technique (Miking), sound selection, sound creation, dubbing, sound effect for live performance/ event, basic recording, mixing down processes, and responsibility of sound function in performance/ event production.

PC 3326	Production and Event Technology	3 Credits

Function and influence of technologies on stage, screen, gallery installation and site specific performances, history and development of the use of technologies in live event, aesthetic and artistic in technologies, selection and integration of technologies aesthetically, failure of technologies and systems usage in production and event, technical terms of technologies and systems in production and event.

3 Credits

Aesthetic of cross-cultural performing arts, contextually influential factors in cross-cultural performing arts which include geography, history, identity, culture, tradition, etiquette, beliefs both in generalized and individualized level, ethnographic approach of studying cross-cultural performing arts, selected cross-cultural performing arts especially in major movements in East Asian Culture, mainly Chinese, Korean and Japanese, which have internationally strong influences on global community.

PC 4306	Stage/Event Management	3 Credits
Prerequisite:	CA 2015 Introduction to Performance Communication	
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	conceptualization, fundamentals of stage management, proc	5

from pre-production to post-production, responsibility of stage management function, and internship in function of stage management in performance/event organization.

PC 4308	Performance Communication Workshop I	3 Credits
Prerequisite:	PC 3306 Marketing Management for Performance Project	

Pre-production process of performance production, production planning, budgeting /financial plan, script preparation, script interpretation, marketing and PR plan, directing preparation, audition process, and research in theatrical design in properties, scenic, costume, light and sound.

PC 4309	Performance Communication Workshop II	3 Credits
Prerequisites:	PC 4306 Stage/Event Management	
	PC 4308 Performance Communication Workshop I	

Production process of performance production, financial/ budgeting control, marketing/ PR activities, script development, directing, rehearsal process, operating in lighting and sound creation, creating scenic, properties, costume and make-up, theatre management, technical run-through, dress rehearsal, opening show, working in post-production and evaluation process.

PC 4310	Seminar in Performance Communication	3 Credits
Prerequisite:	PC 4305 Marketing Management for Performance	

Performance communication in varieties of different styles, problems in cultural and social context, relation between art and therapy, performance communication role and society, performance role for propaganda, performance communication and collective community, theatre management in commercial production, seminar management and presentation.

PC 4311	Production Management for Performance	3 Credits
Prerequisite:	PC 4305 Marketing Management for Performance	

Managing performance/event production, type of performing arts organizations, production planning, organization chart, managing man power and duty, financial and accounting, administrative function, managing the production process, producer role/ responsibilities, producing for commercial performance, legal and ethical concern for production management.

PC 4315	Fundamentals of Lighting	3 Credits
Prerequisite:	CA 2015 Introduction to Performance Communication	

History of stage lighting, production process of lighting function, lighting instrument and equipment, lighting practice, electricity for lighting, lighting plan, lighting cue, script analysis for lighting design, lighting research, design concept, lighting sketch, critical stage lighting, rhythm and emotion creativity with lighting.

PC 4316	Directing	3 Credits
Prerequisites:	PC 3307 Visualization of Stage/ Event	
	PC 3323 Fundamentals of Acting	

Basic directing, process of directing in performance, responsibility of directing function, script analysis, stage composition and blocking design, director's design concept, rehearsal process, conveying theme, concept and idea with directing, and character analysis.

PC 4319 Cultural Event and Festival Management 3 Credits Arts and culture festival management around the world, foundation of cultural events and festivals in international level process of researching and planning, skill of combination of creativity and management comprehensive up

Arts and culture festival management around the world, foundation of cultural events and festivals in international level, process of researching and planning, skill of combination of creativity and management, comprehensive understanding and interpretation of arts and culture festival programs.

PC 4325 Costume and Make-up Selection Prerequisites: PC 3302 Principles of Performance Design PC 3307 Visualization of Stage/ Event

Selecting costume and make up for performance, usage of costume, concept of costume and make up selection for performance, time and space for appropriate selection, history of costumes, definition of costume, types of costume, costume and fashion, process of costume design and selection, and straight make-up and fancy make-up workshop.

3 Credits

3 Credits

3 Credits

3 Credits

6 Credits

3 Credits

PC 4326	Scenery and Prop Creation	3 Credits
Prerequisites:	PC 3302 Principles of Performance Design	
	PC 3307 Visualization of Stage/ Event	

Creating scenery and property in performance/ event, space utilization, scenery and prop design process including design document, concept of scenery and prop, form and style of scenery, idea and design concept, basic stage craft, materials and tools for scene and prop creation and basic scene craft workshop.

PC 4327	Selected Topics in Performance Communication	3 Credits
Prerequisite:	CA 2015 Introduction to Performance Communication	

Performance communication development in social context, performance communication effect or phenomenon of performance communication in society, culture and people.

Technical Drawing PD 1301 ------

Various methods of drawing used by product designers such as orthographic projection, exploded view drawing, perspective projection, and shade and shadow application.

PD 1302 Design Principles

Design principles that focus on basic understanding of the interrelationship between form and function which leads to attractive and functional designs. The principles include: Additive Design, Integrative Design, Integral Design, Sculptural Design, and Organic Design.

PD 1303

Computer Applications for Product Design

Creative potential of computer applications in the context of three dimensional design and the opportunity to explore graphic applications relevant to the area of study.

Product Design I PD 2201

_____ Introduction to the role of designed objects in our everyday experience with emphasis on the understanding of relationship between functions, aesthetic, and human needs and behavior through basic surveys and analyses of product-related problems in corresponding object-oriented projects.

PD 2202	Product Design II	6 Credits
Prerequisite:	PD 2201 Product Design I	

Concept of OBJECT to OBJECT and OBJECT to its ENVIRONMENT relationship, which include aesthetic and functional compatibility, specific environment, spatial requirement, and problem solving through corresponding objectoriented projects.

Model Making PD 2301 3 Credits

Tools, techniques, and materials used in the production of both study and prototype models with emphasis on the use of foam, plaster, wood, and plastics, including casting/molding techniques explored through a series of small skill-oriented projects.

History of Arts and Design PD 2302

Chronological study of art and design throughout history from a range of places, time and culture through explorations, analyses, and critiques of art and design works in order for students to be imbued in the valuable development of mankind visual culture.

PD 2303	History of Product Design	3 Credits	
Chronological exploration through the development of product design of the 19th and the 20th century emphasizing on design movements that contributed to global design development, from pre-modern to modern to postmodern design, expressions of innovative ideas and philosophical concepts within given cultural and political context.			
PD 3201 Prerequisite:	Product Design III PD 2202 Product Design II	6 Credits	
OBJECT to PERSON relation	nship through user-oriented projects with emphasis on human fac d design, ecological issues, product semantics, team-based milieu r nic values.		
PD 3202 Prerequisite:	Product Design IV PD 3201 Product Design III	6 Credits	
OGY relationship based on	duct designing aimed at developing a sense of understanding in the prominent ecological theories and system design for sustainability su ung SALD through object-oriented projects with emphasis on sustainable of	ch as Design for	
PD 3301	Material and Manufacturing Processes I	3 Credits	
Material properties and ma	nufacturing processes focusing on paper, wood, and metals covered acturing facilities to gain firsthand experience of the manufacturing process		
PD 3302	Material and Production Processes II	3 Credits	
Material properties and ma	anufacturing processes, focusing primarily on plastics, fiberglass, texti d through lectures and field trips to local manufacturing facilities to ring processes.		
PD 3303 Prerequisite:	Product Design and Marketing Principles MGT 1101 Introduction to Business	3 Credits	
Basic principles of marketin policies, price policies, sales	in product development cycle, which include product pol promotion policies, and improvement of marketing efficiency through rojects from design strategic planning to design implementation throug pany.	trans-disciplinary	
PD 3304 Prerequisite:	Product Design and Marketing Communications PD 2205 Product Design and Marketing Principles	3 Credits	
Introduction to marketing co advertising, sales promotion	mmunication elements related to building and maintaining of brand equ n, public relations, personal selling, event sponsorships, and direct ma of product designer's role, contribution and involvement in product develo	arketing in order	
PD 3305	Practicum in Product Design	2 Credits	
A 240 working hour of prof experiences and knowledge i	essional training in product design industry to expose students to all k n the real business world.	inds of hands-on	
PD 3401	User Interface Design	3 Credits	
Principles of user interface design applicable in graphical environment, command-line, as well as product applica- tion in order to provide an understanding of how to communicate effectively with users through visual attributes of products.			
PD 3402	Graphic and Packaging Design	3 Credits	
Packaging design that integrates marketing, graphical and three-dimensional design knowledge essential in creat- ing innovative packaging for different kinds of product ranging from food and beverage, beauty and personal care to toys and home products with emphasis on product branding.			
PD 3403	Experience Design for Exhibitions	3 Credits	
Unique expressions of conte	ent in exhibition design such as storytelling and the use of media to c sive experience which persuades, simulates, informs, entertains, as w		

experiences through immersive experience which persuades, simulates, informs, entertains, as well as influences human behavior.

PD 3404	Fashion and Textile Design	3 Credits	
	is on basic skills of fashion design practice such as draping, pattern om prehensive approach to conceptual design and interdisciplinary thinking		
PD 3405	Jewelry Design	3 Credits	
Traditional and contemporary skills of material application.	y jewelry design with emphasis on creativity, innovation, experimentation	n, and technical	
PD 3406	Toy and Play Design	3 Credits	
Toy and play design with en	nphasis on understanding of children development and psychology, de game design, model making, product materials, and safety considerations.	esign and engi-	
PD 4201 Prerequisite:	Product Design V PD 3202 Product Design IV	6 Credits	
Concept of PERSON-to-PERSO	ON relationship especially among products, social interactions, and r ig, marketing communication, and product design for manufacturing th		
PD 4202 Prerequisite:	Senior Project PD 4201 Product Design V	6 Credits	
	ed project with appropriate complexity level that can reflect understandir roduct design.	g of theoretical	
PD 4301	Individual Study in Product Design	3 Credits	
	vidual interest pertaining to Product Design through research under the	e supervision of	
PD 4302	Design in Emerging Market	3 Credits	
Study of how to navigate the eracy, manufacturing technologies	rough emerging markets, which are characterized by immaturity in pro ogy, and environmental policies and regulations through exploration of ng market conditions and contingencies.		
PD 4303	Professional Ethics	3 Credits	
ture, and profession; intellect	nals in the product design industry: designing to benefit clients, users, ual property rights (IPR) essentials: intellectual property law, conditions ntives, permitted acts, and enforcement of copyright.		
PR 3202 Prerequisite:	Strategic Public Relations Campaign Planning and Evaluation CA 2005 Introduction to Public Relations	3 Credits	
Strategic public relations planning through the development of the public relations campaign for business, social, political, and other purposes including the evaluation strategies.			
PR 3204 Prerequisite:	Marketing Public Relations CA 2005 Introduction to Public Relations	3 Credits	
Strategies and implementatio and efficiently use public rela	ns of public relations to attain various marketing objectives, how mark ations in marketing communication campaign to build brand, win acce ve advantage in the marketplace.		
PR 3210 Prerequisites:	Negotiations CA 1001 Introduction to Communication CA 2016 Psychology for Persuasive Communication	3 Credits	
Principles and practices of pe	erotiation impact of verbal and pop-verbal communication upon the n	egotiating pro-	

Principles and practices of negotiation, impact of verbal and non-verbal communication upon the negotiating process, including development of skills in managing with the conflict resolutions and maintaining business relations.

Theories and concepts of organizational communication to deal with the organization's employees, including the various theories and practice of strategic communication in the organization as well as the management of effective internal communication programs, goals of internal communication such as sustaining morale and good employee relations, informing employees about internal changes, communication to increase employees' understanding of the organization's products and services, organization's ethics, and culture.

PR 3215	Writing for Public Relations in English	3 Credits
Prerequisites:	BG 2001 English IV	
	CA 2005 Introduction to Public Relations	

Public relations writing for diverse audiences using a variety of formats such as news releases, photo captions, media advisories, pitch letters, brochures/posters, speeches and newsletters. Students will be assigned to create effective public relations materials by reviewing good writing principles. This course will use English as a medium of instruction.

PR 3216	Writing for Public Relations in Thai	3 Credits
Prerequisites:	GE 1403 Communication in Thai	
	CA 2005 Introduction to Public Relations	

Public relations writing for diverse audiences using a variety of formats such as news releases, photo captions, media advisories, pitch letters, brochures/posters, speeches and newsletters. Students will be assigned to create effective public relations materials by reviewing good writing principles. This course will use Thai as a medium of instruction.

PR 3217	Desktop Publishing/ Presentation Graphics	3 Credits
Prerequisites:	CA 2005 Introduction to Public Relations	
	CA 2013 Utilization of Multimedia Tools	

Application of public relations tools and techniques, especially, desktop publishing and computer-generated presentations, including how to produce pamphlets, brochures, newsletters and other publications used by public relations practitioners.

PR 3218	Special Events Management for Public Relations	3 Credits
Prerequisite:	CA 2005 Introduction to Public Relations	

Various methods to organize special events such as seminar, exhibition, show, contest or even get-together, from concept to planning, arranging everything from budgeting, sponsorship, formalities to all the components/ ingredients, accounting and post event activities.

PR 3224	Applied Research for Public Relations	3 Credits
Prerequisites:	CA 2005 Introduction to Public Relations	
	CA 3011 Communication Arts Research	

Procedures and processes of qualitative and quantitative researches that are commonly used in Public Relations planning, including content analyses, public opinion surveys, focus groups, in-depth interviews, and observations. Students will be assigned to conduct a primary research using the aforementioned methodologies.

PR 3225	Personality Development and Personal Branding	3 Credits
Prerequisite:	CA 2005 Introduction to Public Relations	

Concepts, principles, and techniques of personality development, impression management and personal branding, appropriate authentic self-presentation, improvement of external image such as make-up, hairstyling, dressing, social communication through social events such as host or guest and preparing for media appearance. Students will be assigned to utilize them to create an image or brand for themselves as well as celebrities.

CA 2005 Introduction to Public Relations	
PR 3215 Writing for Public Relations in English	
PR 3216 Writing for Public Relations in Thai	
	PR 3215 Writing for Public Relations in English

Strategic relationships and use of public relations tools to communicate with the media, nature of the mass media, strategic communication planning, media planning and evaluation theories including how to prepare the press kit, press conference, press tour, and how to be corporate spokesperson.

PR 3228 Prerequisites:	Intercultural Communication CA 1001 Introduction to Communication CA 2005 Introduction to Public Relations	3 Credits
Fundamental elements of in cultural influence, environm background, building and in	ntercultural communication, basic intercultural theories, socio-cultural in nental influence, differences of non verbal and verbal communication in maintaining relationship in multi-culture society, adjusting and develop new culture as well as designing and implementing effective public relati iverse market.	various cultural ing the working
PR 3229 Prerequisite:	Folk and Traditional Media Communication CA 2005 Introduction to Public Relations	3 Credits
Folk and traditional media in tance and impact of folk and communication, application	ncluding elements, characteristics, content and forms of folk and tradition d traditional media in communication, folk and traditional media in socio- of folk and traditional media in modern communication era, case study of the social development, community relations as well as other communication	ultural and ritual of using folk me-
PR 3230 Prerequisites:	Digital Public Relations CA 2005 Introduction to Public Relations CA 2013 Utilization of Multimedia Tools	3 Credits
Technical and theoretical ele and measuring, writing for	ements that compose digital media and social media, approaches to liste digital media, strategic approaches to engage in digital media and soci security and privacy as well as application of digital media for public re izations.	ial media, ethics,
PR 4201 Prerequisites:	Corporate Communication and Stakeholder Relations PR 3204 Marketing Public Relations PR 3214 Organizational Communication	3 Credits
Corporate image, identity ar	nd reputation building, including how to conduct image audits, write corp stand corporate social responsibility concept.	oorate communi-
PR 4207 Prerequisite:	Public Relations Workshop I CA 3011 Communication Arts Research PR 3202 Strategic Public Relations Campaign Planning and Evaluation	3 Credits
Training in selecting, creatin various cases and problem	ng and applying tools, techniques along with the principles of public rela situations. Students will be assigned to write up the communication car ic relations to serve an actual "client".	
PR 4208 Prerequisites: or	Public Relations Workshop II PR 3202 Strategic Public Relations Campaign Planning and Evaluation PR 3215 Writing for Public Relations in English PR 3216 Writing for Public Relations in Thai	3 Credits
Training in public relations management, public relation	campaign based on the planned strategic direction regarding public re ons implementation, production of public relations materials, and pro- choose their own topics under the supervision of their instructor.	
PR 4209	Seminar in Public Relations (PR Senior students Only)	3 Credits
Analysis and discussion on nity relations, social media, particular topics, analyze, an	contemporary topics of public relations, such as corporate social respor crisis management, corporate image. Students will be assigned to do id discuss on various aspects. In addition, students will have opportuniti ed on the topics of each semester.	research in that

PR 4212	Public Relations Internship (200 Hours)	1 Credit
	(PR Students Only)	

Internship program assigning students to be trained in a corporation, nonprofit company, educational institution, governmental/non-governmental organization, or public relations agency that provides public relations experiences. Students are required continuously to work for at least 200 working hours and present the training results to the instructors.

Community Relations CA 2005 Introduction to Public Relations

PR 4219

Prerequisite:

3 Credits

Community relations, corporate social responsibility, strategies, engagement for developing long-term relations, developing communication platform for communicating with community groups, including planning, implementation, monitoring, and evaluation. Students will be assigned to apply the concepts for building the relationship with both offline and online community.

PR 4220 Prerequisite:	Financial and Investor Relations CA 2005 Introduction to Public Relations	3 Credits
Factors influencing invest regulations, corporate go	stment decisions, interpreting and communicating financial d overnance best practices, effective use of investor communicat ional and retail investors, sell-side analysts, and financial media.	
PR 4221 Prerequisite:	Public Relations for Issue and Crisis Management CA 2005 Introduction to Public Relations	3 Credits
Nature of issues and cr	isis management from a strategic communication perspectiv case studies on strategic issues, risks, and crisis communicati nication plan.	
PR 4222 Prerequisites:	News Writing and Reporting BG 2001 English IV CA 1006 Introduction to Journalism and Mass Communicatio	3 Credits
	athering, writing, and reporting of news worthy events and per nd broadcasting.	rsonalities. Finished work will
PR 4223 Prerequisite:	Magazine/Feature Writing BG 2001 English IV	3 Credits
	g, and writing feature articles for magazines and newspaper. lications.	s, including freelancing and
PR 4226 Prerequisite:	Selected Topics in Public Relations CA 2005 Introduction to Public Relations	3 Credits
	e not covered in regular departmental course offerings. Topic	cs will be announced in ad-
REM 3111 Prerequisite:	Principles of Real Estate MGT 1101 Introduction to Business	3 Credits
Overview of real estate various types of propert	business and professional practices, special terms, nature any y, basic rights and interests in real estate, land-use controls, ty management, development, investment, real estate finance and	forms of ownership, various
REM 3112	Real Estate Law	3 Credits
General principles of real subdivision regulations, o	estate law and legal aspects which are related to the real esta ownership in real estate, transferring and registering title, regu ninium development laws, construction laws and other contrac	lations of land-use and zon-
REM 3113 Prerequisites: and	Real Estate Economics BG 2401 Microeconomics BG 2400 Macroeconomics	3 Credits
	eal estate, real estate business cycle, real estate cycle, real est es in real estate.	ate markets, urban land-use,

REM 3114	Building Design and Construction Techniques	3 Credits

Basic knowledge of techniques and process used to design and construct a building, terms and symbols used in construction drawings, types of construction materials, construction technology and equipment, quantity take off technique, scheduling techniques, process to construct building structure, architecture, finishing and building mechanical systems.

Methods in real estate development for various types of real estate business, various participants in the real estate development process both public and private, development process, including conceptual development, feasibility study, real estate cycle market analysis, contracting and basic concepts of project management.

3 Credits

REM 3212	Real Estate Finance	3 Credits
Prerequisites:	FIN 2700 Money, Banking and Financial Markets	
	REM 3111 Principles of Real Estate	

Financial techniques to sell and buy real estate property, types of financial institutions and sources of funds, types of loan, underwriting, analysis of project development loan and mortgage loan, factors and principal process in real estate lending, including various financial calculations used in real estate business, and government's current policies regarding real estate finance.

REM 3213	Real Estate Appraisal	3 Credits
Prerequisite:	REM 3111 Principles of Real Estate	

Introduction to real estate appraisal, definition of value, objectives of appraisal, data analysis, land (site) and building survey, appraisal report, with emphasis on the three basic approaches to calculate value: Cost Approach, Market Approach and Income Approach.

REM 3214	Principles of Real Estate Investment Analysis	3 Credits
Prerequisite:	REM 3212 Real Estate Finance	

Process of real estate investment and analysis, methods in real estate investment analysis, including traditional method and discounted cash flow method, prelim-financial feasibility study, real estate investment assumptions, real estate investment analysis of various real estate segments, real estate investment analysis report, other types of real estate investment vehicles.

REM 4112	Computer Applications in Real Estate	3 Credits
Prerequisite:	REM 3112 Real Estate Finance	

Various computer applications for real estate management decision and practice, computer software programs including spreadsheet, database management system, project management software, floor plan & mapping software, applications covering various areas including real estate finance, real estate investment analysis, and project planning and control.

REM 4113	Principles of Property Management	3 Credits
Prerequisites:	REM 3111 Principles of Real Estate	
	REM 3114 Building Design and Construction Techniques	

Basic management principles for income producing properties, process for making management plans, property marketing, lease management, roles and right of landlord and tenant, personnel management, management and maintenance of different types of property especially residential and commercial.

REM 4131	Real Estate Project Management	3 Credits
Prerequisites:	REM 3211 Principles of Real Estate Development	
	REM 3114 Building Design and Construction Techniques	

Procedure and basic technique throughout project management life cycle to fulfill a real estate development project, planning and control project schedule, cost and quality, organization methods and project team, leadership, risk management, project feasibility analysis and project contract.

REM 4132	Advanced Real Estate Investment Analysis	3 Credits
Prerequisite:	REM 3214 Principles of Real Estate Investment Analysis	

Comprehensive real estate feasibility analysis for both low-rise housing and condominium investments, analysis application through computer software packages with the aspects of market, finance, legal, construction, and taxation, analysis of investment risk, tax planning for investment, inflation and investment cycle, and basic strategies for investment portfolio.

REM 4141 Prerequisite:

Advanced techniques in valuation, including the residual method, discounted cash flow method, and various real estate appraisal theories, standard practice for appraisers, valuation of pending properties, fee simple, lease fee estate and leasehold estates, use of statistics, accounting, computer software and financial analysis in appraising real estate.

REM 4142	Professional Appraisal Practice and Ethics	3 Credits
Prerequisite:	REM 3213 Real Estate Appraisal	

Appraisal standards, category of property appraisal, qualifications of valuer, objectives and basis of valuation, assumptions, conditions and limitations, duties and responsibilities of valuer, professional code of ethics, professional negligence and liability, arbitration and dispute resolution, role of expert witness, lifecycle of professional valuation business, and problems and obstacles in appraisal profession.

REM 4151	Corporate Real Estate Management	3 Credits
Prerequisite:	REM 4113 Principles of Property Management	

Corporate real estate environment analysis and organization structure, operations and management planning for property, strategic planning of efficiency improvement and cost reduction, local community relations management, market and economic timing, buy/hold or sell property decision analysis, location selection strategy, space utilization management, risk management strategy.

REM 4152	Facilities Operations and Maintenance	3 Credits
Prerequisite:	REM 4113 Principles of Property Management	

Building engineering system and building components, facility and building components maintenance operation, energy utilization and management, building environmental management green building, building user's safety and health management.

REM 4191	Seminar in Real Estate Business	3 Credits
Prerequisites:	REM 3211 Principles of Real Estate Development	
	Senior Standing (over 100 credits)	

Comprehensive review of various special aspects of real estate development experience and practices, group and individual real estate research, and case study in relevant current issues.

REM 4192	Seminar in Property Valuation	3 Credits
Prerequisites:	REM 3213 Real Estate Appraisal	
	Senior Standing (over 100 credits)	

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Various aspects of real estate appraisal experience and practices, case studies, workshops, and fieldtrips related to property valuation.

REM 4193	Seminar in Property Management	3 Credits
Prerequisite:	REM 4113 Principles of Property Management	

Comprehensive review of various special aspects of property management experience and practices, property management research, case study in relevant current issues and fieldtrips related to property management.

REM 4221	Directed Study in Real Estate	3 Credits
Prerequisite:	Consent of the Department Chairperson	

Under the guidance of the Department Chairperson, a student will carry out an approved research project in real estate business. Depth, detail and originality of the study will determine the project evaluation.

REM 4222	Capital Markets Related to Real Estate Business	3 Credits
Prerequisite:	REM 3214 Principles of Real Estate Investment Analysis	

Structures and types of capital markets as sources of fund for real estate business, related types of security and market that are applied for real estate investment including Mutual Fund, Property Fund and Secondary Mortgage Market, regulations and procedures to list and issue securities in the Stock Exchange of Thailand (SET), criteria of investment risk analysis in different types of capital market

Real Estate Marketing and Brokerage Management REM 3211 Principles of Real Estate Development

3 Credits

Techniques for marketing commercial-investment properties; planning, process, and methods of marketing including marketing program, selling and negotiation strategy, information systems supporting marketing, roles of brokerage business including services, relationship to owner, responsibilities, brokers' code of ethics, and development of a broker profession.

REM 4241	Valuation for Special Purposes	3 Credits
Prerequisite:	REM 3213 Real Estate Appraisal	

Methods and techniques for appraisal of assets used for special purposes such as intangible assets, valuation for statutory purposes e.g. tax, expropriation, valuation of assets for non-market assets, plant and machinery, concepts to support valuation of various intellectual properties, including patent, copyright, brand name, goodwill, and share value.

REM 4251	Income-producing Property Management	3 Credits
Prerequisite:	REM 4113 Principles of Property Management	

Property manager roles and duties, commercial leasing process, lease contract management, lease negotiation in theory and practice, tenant/landlord relationship management, juristic person management.

REM 4381	Internship in Real Estate Business (300 Hours)	3 Credits
Prerequisite:	Consent of the Department Chairperson	

In the final semester, students may arrange for an Internship Program with a company related to real estate business for at least 300 working hours. Course evaluation based on daily progress record, overall training discussion report, and performance evaluation by the immediate supervisor.

REM 4382	Internship in Real Estate Appraisal (300 Hours)	3 Credits
Prerequisite:	Consent of the Department Chairperson	

In the final semester, students may participate in an Internship Program with a company related to real estate appraisal for at least 300 working hours. Course evaluation based on daily progress record, overall training discussion report, and performance evaluation by the immediate supervisor.

REM 4383	Internship in Property Management (300 Hours)	3 Credits
Prerequisite:	REM 4113 Principles of Property Management	

In the final semester, students may participate in an Internship Program with a company related to property management for at least 300 working hours. Course evaluation will be based on daily progress record, overall training discussion report, and performance evaluation by the immediate supervisor.

SC 1101	Computer Programming I	4 Credits
SCITUT	Computer rogramming	+ crearis

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History of computer, components of a computer system, coding and numbering systems, algorithm and development process of algorithms and expression of algorithms in terms of flowchart and pseudo code, implementation of algorithms using one of the high level languages that are used widely in the industry with emphasis on the nature and structure of the language, techniques of programming for both numerical and non-numerical processing, structure of the programming languages and how to develop structured programming.

SC 2101	Computer Programming II	4 Credits
Prerequisite:	SC 1101 Computer Programming I	

Algorithms development to solve more complex problems, analysis of more complicated programs as well as modification of the programs, string processing, searching and sorting algorithms, and abstract data types such as linked list, stack, and queue, second high level language which will be widely used in the further courses with emphasis on characteristics of the structured programming and modular programming, application of basic data structures and algorithms to solve various complicated problems.

SC 2151	Introduction to Microcomputer Application	3 Credits
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Structure and characteristics of microcomputers, and the techniques of applying microcomputer technology, focus on software packages such as word processing, spreadsheet, database management systems, etc. The course will cover current technologies as well as future trends.

SC 2210 Prerequisite:	Files Organization SC 2101 Computer Programming II	3 Credits
Characteristics of con sequential, indexed-se	nputer files and mass storage media, operations on files, file organ equential, direct, extendible hashing, and B-trees, design of file n r other high-level languages.	
SC 2211 Prerequisite:	Data Structures and Algorithms SC 2101 Computer Programming II	3 Credits
Analysis of complexit graph, set and heap,	ty of algorithms, various data structures including array, string, s applications and analysis of algorithms developed employing the and memory requirement analysis of various searching and sorting alg	e data structures mentioned
SC 2212 Prerequisites:	Database Systems SC 2210 Files Organization and SC 2211 Data Structures and Algorithms	3 Credits
Database systems ar	nd database management, types of database systems emphasiz cy, normalization, query optimization, integrity and security of dat	
SC 2213 Prerequisite:	Advanced Programming SC 2101 Computer Programming II	4 Credits
Practical software dev implementation of th programming examina	velopment to solve more complex problems, analysis of more complex programs, practical programming. The computer science student ation in order to fulfill the requirement of this course.	s have to pass the practica
SC 2220	Computer Organization	3 Credits
Computer systems co CU and registers, me representation of vari	onfiguration which includes the functions of the components of or mory unit and devices as well as connection of each component ious data types and machine instructions, microcodes, fundamenta l execution of programs, assembly language programming.	t by the system bus, binar
SC 2231	Mathematics Foundation for Computer Science	3 Credits
Discrete mathematics	as the basis of computer science, set theory, relation and function mathematical reasoning, graph theory, tree, algebraic structure, pro	
SC 3210 Prerequisite:	Programming Languages SC 2101 Computer Programming II	3 Credits
Computer programm implementation, emp	ing languages on comparative basis with special consideration hasizing on suitability of programming languages for various data r ibroutines, visibility rules, concurrency and memory management.	
SC 3211 Prerequisite:	Operating Systems SC 2220 Computer Organization	3 Credits
Components and fur ing, resource manag	nctions of operating systems, uniprogramming, multi-programming ement functions of operating systems, process scheduling algor emory management, and classical problems related to operating	rithms, device managemen

SC 3220	Computer Architecture	3 Credits
Prerequisite:	SC 2220 Computer Organization	

Computer system components, combinatory circuits, sequential circuits, micro-operations using flip-flop, registers, adder and counter, computational operations and control of micro-operations, design of memory unit, design of set of instructions, design of parallel processing as well as SISD, SIMD, MISD, and MIMD architectures.

SC 3230 Prerequisite:	Theory of Computation SC 2231 Mathematics Foundation for Computer Science	3 Credits
Methods of computation, se istic and non-deterministic ability and non-computabilit	quential computation, parallel computation, logic circuits, finite-state n machine, regular and non-regular set, push-down automata, Turing y, halting problem, examples of class P and class NP problems, theori oblems which are the basis of computer science.	machine, comput-
SC 3231 Prerequisites:	Algorithms Design SC 2231 Mathematics Foundation for Computer Science	3 Credits
	gorithms using divide and conquer, greedy method, dynamic progra nalysis of efficiency, design techniques for NP problem domain.	mming and back-
SC 3320 Prerequisite:	Digital System Design SC 2220 Computer Organization	3 Credits
Use of Boolean functions in grated circuits, Large Scale	designing the combinatory and sequential circuits, flip-flop, counter, a Integration (LSI), Very Large Scale Integration (VLSI), design of variou such as adder, subtractor, multiplier, and divider circuits as well as	s types of circuits
SC 3351 Prerequisite:	Computer Networks SC 2220 Computer Organization	3 Credits
Basic knowledge of comput damentals of network desig	er network, data communication, transmission media, and communica n, network topology, multi-layer protocols, routing machines, circuit hing, case studies of computer networks such as ARPAnet, and Local Area	switching, packet
SC 4299 Prerequisite:	Senior Projects fourth-year student status with at least 100 credits completed	3 Credits
Specific project which require define the solution and des	res students to design and develop a concrete program or system, and ign the system by applying the various computer science concepts. The e them throughout the project development. The students must give p	The advisor whom
SC 4310 Prerequisite:	Software Engineering SC 2101 Computer Programming II	3 Credits
	of requirements, structured software design, development, implement eusable software, documentation and software manuals, and software	
SC 4311 Prerequisite:	Computer Graphics SC 2211 Data Structures and Algorithms	3 Credits
niques for creating, storing,	raphics construction using computer, data structure for computer g transformation, translation, rotation, clipping, and animation, use of co el languages to write computer graphics programs.	
SC 4312 Prerequisite:	Compiler Construction SC 2211 Data Structures and Algorithms	3 Credits
Structure of compilers, step	os of execution of compiler, symbol table, lexical analysis, semantic storage management, code optimization, implementation of simple co	
SC 4320 Prerequisite:	Introduction to Microprocessors SC 3320 Digital System Design	3 Credits
Introduction to microproces	sor technology, evolution of microprocessor, microprocessor architect processors as well as different kinds of commercially available microproces	
Very Large Scale Integration circuits and different design techniques including automatic design method, impact of VLSI technologies in computer systems.

3 Credits

3 Credits

SC 4330	Numerical Analysis	3 Credits
Prerequisite:	SC 2231 Mathematics Foundation for Computer Science	

Analysis of precision levels in numerical computations, algorithm constructions for mathematical problem-solving such as finding roots of various equations, interpolation, differentiation and integration, finding of terms and sum of series with emphasis on the writing of programs to solve complex numerical problems.

SC 4331	Formal Languages and Automata	3 Credits
Prerequisite:	SC 3230 Theory of Computation	

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Fundamental mathematical theories related to languages and grammars, deterministic and non-deterministic finite automata, pushdown automata, linear bounded automata, Turing machines, regular languages, context-free languages, context-sensitive languages, recursive languages, closure problems of languages, concepts of effective-ness, undecidability and computational complexity.

SC 4332	Artificial Intelligence Concepts	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Fundamental concepts in AI and its purpose as well as different disciplines in the field, mathematical theorem proving, natural language processing, image processing, robotics, expert system and various techniques used in knowledge representation, searching, induction and heuristic algorithms, case studies related to specific AI applications including expert system, language translation, voice processing, and others, use of popular programming languages such as Prolog and LISP to solve AI related problems.

SC 4333	Systems Analysis and Design	3 Credits

Roles and importance of information system in organizational structure with regard to strategic planning and decision making, relationship among different information systems within an organization and role of computer systems in information system, various computer technologies which can be used to implement information systems as well as efficient management of information system to meet the various needs of different levels of organizational hierarchy.

SC 4340 Neural Network

Basic neural network architectures and learning rules, with extensive coverage of performance learning, including the Widrow-Hoff rule, backpropagation and its enhancements, recurrent associative memory networks, and competitive networks, mathematical analysis of networks, training methods, implementation and applications.

SC 4341 Machine Learning 3 Credits

Construction of computer programs that will automatically improve their performance through experience, primary approaches to machine learning, including inductive inference of decision trees, case-based learning, neural network learning, statistical learning methods, and Bayesian learning.

SC 4352	Image Processing	3 Credits
Prerequisite:	SC 2211 Data Structures and Algorithms	
or	IT 2230 Information Structures	

Introduction to digital image processing including such topics as digital image representation, compression techniques, coding techniques, analysis of images represented in different formats, as well as optical character recognition techniques based on image processing to recognize Thai and English alphabetic.

SC 4370	Object-Oriented Concepts	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Different software development methods emphasizing on object oriented methods, fundamental concepts of object oriented programming, inheritance, polymorphism, encapsulation, object oriented programming tools, class libraries, application development using object oriented concept, analysis and design of object-oriented data architecture.

3 Credits

Advanced computer programming language which is considered to be widely used in the software development industry.

SC 4372	System Programming	
Prerequisite:	SC 3211 Operating Systems	

Characteristics of batch processing, compilation, linking, loading and execution of programs in relation to system libraries, I/O subroutines, direct and indirect addressing methods, relocation of memory space, register addressing of operating systems, compilers, interpreters and database systems, implementation of simple system program using assembly and/or C language.

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SC 4373	Web Application Development	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Hypertext Markup Language (HTML) or dynamic HTML (DHTML), scripting language, such as Visual Basic Scripting Edition or Microsoft Jscript[®], knowledge and skills required to develop web application using n-tiers architecture, designing, building, and deploying web application

SC 4374	Enterprise Application Development	3 Credits
Prerequisite:	SC 2212 Database System	

Architecture and platform of choice for building and deploying n-tier, web-based, transactional, and componentbased enterprise applications, high-level overview of enterprise application architecture, individual programming API's and technologies that constitute at Web tier and business tier, security, persistence, transaction.

SC 4375	3D Graphical Programming	3 Credits
Prerequisite:	SC 2101 Computer Programming II	

Technologies on 3D Graphical Programming, process involved and program 3D graphical applications

SC 4381	Computer and Information Security	3 Credits
Prerequisite:	SC 3351 Computer Network	

Information security that is practically implemented into organizations, attacks, threats, hackers techniques, information security risk, information security process, security technologies, policies, wireless security and legal issues of information security.

SC 4390	Seminar in Computer Science	3 Credits
Prerequisites:	Senior students with the consent of the instructors	

Seminar on topics in advanced or new technology in the field of computer science. An expert or professor in the specific field may be invited to give lectures. Each student must study some specific topics, make presentation and exchange questions with the others.

SC 4400 - 99	Selected Topics	3 Credits
Prerequisite:	Senior students with the consent of the instructors	

Special topics that are appropriate for detailed study and research. The topic selected depends on the student's needs and the instructors' requirements and is in accordance with the current change of computer science in that period.

TE 3000	Principles of Communications	3 credits
Prerequisite:	BG 2209 Statistics for Engineers	
	EE 2203 Signal and Systems	

Introduction to signal and system, spectrum of signal and applications of Fourier Series and transform, analog modulation, AM, DSB, SSB, FM, NBFM, PM, noise in analog communication, binary baseband modulation, Ny-quist's sampling theory and quantization, pulse analog modulation, pulse code modulation (PCM), delta modulation (DM); multiplexing, time-division multiplexing (TDM), introduction to transmission lines, radio wave propagation, microwave components and satellite communications, and optical communication.

TE 3002 Prerequisite or Co-requisite:	Communications Laboratory TE 3000 Principles of Communications TE 3003 Fundamentals of Communication Systems	1 Credit
or	TE SOOS Fundamentais of Communication Systems	
	tudents better understand the theory of communications, i.e. signal and ts, etc. Students can also gain technical experiences about some us	
TE 3102	Communication Networks and Transmission Lines	3 Credits
Prerequisite:	EE 2201 Electric Circuits EE 3301 Electromagnetic Fields	5 Credits
Network theorems; analysis resonance, wave filters; impe	and design of equivalent one-port and two-port, series and parallel re- edance transformation and matching networks; network approach to th zation of transmission lines for impedance matching.	
TE 3301 Prerequisite:	Radio Wave Propagation EE 3301 Electromagnetic Fields	3 Credits
	ky wave propagation; space wave propagation; narrow band fast fading	g; wide band fast
TE 4105	Microwave Engineering	3 Credits
Prerequisite:	EE 3301 Electromagnetic Fields	
Microwave transmission line	es, s - parameters; microwave network analysis, microwave resonators owave filters, microwave systems and applications, microwave measureme	
TE 4107	Digital Telephony	3 Credits
Prerequisite:	TE 3000 Principles of Communications	
or	TE 3003 Fundamental of Communication Systems	
Analog network Hierarchy, d	igital voice networks, voice digitization PCM-DPCM-Delta, asynchronous DM, Space and Time division switching, BORCHT, digital modulation MA-F	
TE 4110 Prerequisite:	Wireless Communications and Cellular Systems TE 3000 Principles of Communications	3 Credits
munication systems; models fading channels, multipath	nunication systems and applications; background in physical layer for s for wireless communication channels, path loss models, shadowing fading channels; diversity techniques for fading channels; multiple are e systems; cellular network design principles; wireless communication stand	models, Rayleigh ccess techniques;
TE 4111 Prerequisite:	Antenna Engineering EE 3301 Electromagnetic Fields	3 Credits
Basic definitions and theore impedance; wave polarizatio	ems; isotropic point source; power and field patterns; directivity and n; radiation from current elements; radiation properties of wire antenna log-periodic antenna; aperture antenna; microstrip antenna; antenna meas	a; linear array an-
TE 4112	Optical Communications	3 Credits
Prerequisite:	EE 3301 Electromagnetic Fields	
or	TE 3000 Principles of Communications TE 3003 Fundamental of Communication Systems	
	TE 5005 Fundamental of Communication Systems	
ters; optical fiber production;	des and propagating conditions; structure and types of optical fiber; opti optical cable types; signal degradations in optical fiber; optical sources; ical receivers; optical repeaters and amplifiers; optical components; link bu	modulation tech-
TE 4113	Digital Communication	3 credits
Prerequisite:	TE 3000 Principles of Communications	

Review of sampling theorem; probability and random processes; line coding and pulse shaping; signal detections; digital modulation techniques; performance analysis; introduction to information theory; source coding; channel coding.

TE 4202	Communication Electronics Laboratory	1 credit
Prerequisite or Co-requisite:	TE 4201 Communication Electronics	

Laboratory work to be done according to TE 4201 Communication Electronics Laboratory

TE 4203	Noise in Electronic Systems	3 Credits
Prerequisite:	EE 3601 Electronic Circuit Design	

Noise, noise protection in conductor, capacitive and inductive effects of conductor, effects of component magnetic fields, line twisting noise protection, grounding of electronics system, noise protection in amplifier, external noise, types of cables and links, noise equilibrium, cascade of passive networks, corrosion protection of contact surfaces, design of printed circuit board.

TE 4204	Optoelectronics	3 Credits
Prerequisite:	EE 2603 Electronic Circuit Analysis	
or	EE 2605 Engineering Electronics	
and	EE 3301 Electromagnetic Fields	

Units of light measurement, optical fiber, wave guide, light sources, and semiconductor light detector, liquid crystal, optical transmission and reception, optical integrated circuits.

TE 4901 Prerequisite:	Telecommunication and Electronic Engineering Project I Completion of 100 credits	1 Credit
	ent of project in Telecommunication and Electronics Engineering. Studer ester.	nt must submit reports
TE 4902 Prerequisite:	Telecommunication and Electronic Engineering Project II TE 4901 Telecommunication and Electronic Engineering Project I	2 Credits
Continuation of the p at the end of the seme	project done in Telecommunication and Electronics Engineering Project I. ester.	Report is also required
TE 4903	Advanced Topics in Telecommunication and Electronic Engineering	3 Credits

TE 4904	Special Problems in Telecommunication and	3 Credits
	Electronic Engineering	
Prerequisite:	Completion of 90 credits with the consent of the chairperson	

Investigation of special problems assigned by the instructor with the consent of the chairperson: a written report is required.

TH 1500	Introduction to Thai	3 Credits
Basic language used in every importance, reading short sent	yday life, basic listening, speaking, pronunciation skills, grammatical f tences and writing words	forms of primary

TH 1501	Thai Language I	3 Credits
Prerequisite:	TH 1500 Introduction to Thai	

Listening and speaking skills in a variety of circumstances in everyday life to broaden basic vocabularies and grammar, reading simple texts, and writing short sentences

TH 2501 Prerequisite:	Thai Language II TH 1501 Thai Language I	3 Credits	
Complex grammatical structure, reading texts and dialogues concerned with everyday life and practice of writing essay			
TH 2502 Prerequisite:	Thai Language III TH 2501 Thai Language II	3 Credits	
	e, reading texts and dialogues concerning Thai life and culture and p	actice of writing	
TH 3501 Prerequisite:	Advanced Reading TH 2502 Thai Language III	3 Credits	
	ills, main ideas finding, facts and opinions analysis, author's viewpoi	nt and intention	
TH 3502 Prerequisite:	Advanced Thai Writing TH 2502 Thai Language III	3 Credits	
Development of writing skil	ls, styles in the present-day Thai language both formal and informal, wr effective writing, and practice various writings	iting for present-	
TH 3503 Prerequisite:	Advanced Reading and Writing TH 2502 Thai Language III	3 Credits	
Main ideas finding, facts an	d opinions analysis, author's viewpoint and intention analysis, develop y Thai language both formal and informal.	oment of writing	
TS 1201	Physics	4 Credits	
Basic physics, mechanics, el	Basic physics, mechanics, electricity and magnetism, thermodynamics and statistical physics, atomic and molecular physics, nuclear physics, physical properties of gases, liquids, solid state and amorphous materials, polymers.		
TS 2222 Prerequisite:	Introduction of Circuits and Electronics TS 1201 Physics	4 Credits	
Fundamental principles of electric circuits, practical electronics, digital logic and instrumentation systems, measure- ment of circuit phenomena, construction of amplifiers and filters, logic circuits, D/A and A/D converters and use of sensors and transducers.			
TS 2231 Prerequisite:	Mathematics for Telecommunications DA 2102 Calculus II	3 Credits	
Fundamental of differential equations, various transform theories and their applications to communications, matrices and linear systems of equations, probability and statistic theory in communication signals and systems, numerical methods and complex analysis.			
TS 2242 Prerequisite:	Communication Signal and Systems TS 2231 Mathematics for Telecommunications	4 Credits	
Various types of signals, i.e. discrete-time signal, continuous-time signal, and noises in communication systems, basic concepts of signal transmission in various communication systems, various transformations of signals in time and frequency domain, classical and modern modulation techniques, various types of filters, general concepts on causality and stability in designing linear time-invariant systems.			
TS 3230 Prerequisite:	Telecommunications System and Technology IT 2231 Information Technology	3 Credits	
Introduction to various telecommunication systems and networks, radio and cable communication systems, basic concepts of analogue and digital communications, optical fiber, satellite, computer networks and communication protocols, and network security.			

Basic concepts of digital signal and noise in communication systems, various types of multiplexing techniques, digital modulations, digital filters, effect of noise on modulated digital signal in communication channels, performance evaluation of digital modulation techniques based on bit error rate vs. signal-to-noise ratio graphs

4 Credits

TS 3256	Computer Networks and Open Systems	4 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology	

Fundamentals of computer networks, inter-operability issues, Open System Interconnection (OSI) reference model, protocol basics and network protocols i.e. Transmission Control Protocol/Internet Protocol (TCP/IP), various network media, prevailing network types and topologies, wire and wireless communication basics, Local Area Network (LAN) and Wide Area Network (WAN) technologies, network devices and their connectivity, basics of operating systems, basics of network security and advanced computer network technologies.

TS 3257	Coding for Communications	3 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology	

Basic concepts of signal/data transmission in communication systems, fundamental of information and coding theory, applications of information and coding theory in communication systems, various error control coding techniques.

TS 3332	Switching and Signaling Systems	3 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology	

Principles and history of the public switched telephone network, signaling and intelligent network and its interoperability to provide telephone services, comparison of switching paradigms and evolving infrastructure, and the future of telephony.

TS 3338	Cryptography and Data Security	3 Credits

Modern cryptography which includes fundamental cryptographic primitives of public key encryption, digital signatures, authentication, identification and pseudo-random number generation.

TS 3339	Introduction to Electromagnetic Field	3 Credits
Prerequisite:	TS 2231 Mathematics for Telecommunications	

Introduction to electric and magnetic fields, electric charge and current, Maxwell's equation, wave equations and characteristics of waves in various media, and principles of antenna and guided wave.

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TS 3350	Analog Communications	3 Credits
Prerequisite:	TS 2242 Communication Signal and Systems	

Frequency domain and time domain response of linear systems, analog modulation methods including amplitude modulation, frequency modulation and phase modulation, signal and noise modeling using probabilistic descriptions, narrow band random processes and performance of analog modulation techniques in the presence of noise, and design of communication links.

TS 3357	Computer Application in Telecommunications	3 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology	

Telecommunications applications for computer hardware and software, consideration of human factors, policy and application in consumer, business and research sectors of telecommunications industry.

TS 3359	Probability and Queuing Theory	3 Credits
Prerequisite:	DA 2203 Probability and Statistical Methods	

Probability and random process in telecommunications, distribution of several random variables in telecommunications, distribution functions, queuing theory, classification of queue, priority queuing, computer time sharing and multi-access systems. Overview of wireless communication concepts, propagation models, interferences, noises, multipath and fading, modulation and multiple access techniques, spread spectrum techniques, fundamentals of cellular communications concepts and design, cellular data networks, and wireless protocols and standard.

4 Credits

TS 4261	Internetworking Workshop I	4 Credits
Fundamentals of in	tornativarking connectivity concents components and protocol	

Fundamentals of internetworking connectivity concepts, components and protocols (i.e. flow control protocols, error checking mechanisms, and routing protocols), data encapsulation, network addressing, Local Area Network (LAN) technologies, basic LAN design and implementation, and basic network devices configurations.

TS 4262	Internetworking Workshop II	4 Credits
Prerequisite:	TS 4261 Internetworking Workshop I	

Design and implementation of small to medium size Local Area Networks (LANs) emphasizing LAN switching concepts, protocols, features and technologies and LAN switch configuration, introduction to Wide Area Network (WAN) technologies, encapsulation protocols, design and implementation, hands-on experiences in adding network security, and efficiently uses of IP network services.

TS 4299	Senior Project	3 Credits
Prerequisite:	Fourth-year student status with at least 100 credits completed	

Specific project which requires students to apply the knowledge they have studied to design and develop as well as to conduct research in telecommunications system. Students must apply their analytical and decision making skills based on scientific methodology and creativity in developing telecommunications projects. The instructors will advise them throughout the project development. Students will have an oral examination on their projects.

TS 4332	Economics in Telecommunications Systems	3 Credits
Inventory concepts, asset an investment decisions.	nortization, liabilities, consolidated statements, cost accounting,	capital budgeting, and

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TS 4333
                Telecommunications Policy, Law, Regulation and Standard
                                                        3 Credits
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Systematic interdisciplinary analysis of major public and private telecommunications policies applying tenets from law, political science, economics, communication, general social science and technology, domestic and international regulation.

TS 4335	Network Management and Controls	3 Credits
Prerequisite:	TS 3256 Computer Networks and Open Systems	

Standard-based protocols for management of telecommunications networks, Simple Network Management Protocol (SNMP) and common management information protocol, and extensions of present protocols to optimize network performance.

TS 4336	Operation Research	3 Credits
Prerequisite:	DA 2102 Calculus II	

Linear programming problems and its dual, simplex method, transportation and warehouse problems, computer algorithms and applications to various fields, optimization theory, integer programming; Pert (CPM), non-linear programming, dynamic programming and game theory.

TS 4352	Satellite Communication Systems	3 Credits
Prerequisite:	TS 3257 Coding for Communications	

Fundamentals of microwave communication, satellite communication system architecture, orbit ring of communication satellite, propagation delay and interference of noise in satellite communication system, and design of satellite systems

TS 4353	Voice and Data Integration	3 Credits
Prerequisite:	TS 3230 Telecommunications System and Technology	

Methods of data transmission and switching over Wide Area Network telecommunications facilities, voice digitization techniques, architecture and evolution of the digital telecommunications network and design of integrated voice and data networks.

Various types of media in communication systems, basic concepts of data and media compression, various standards for signal compression, transmission of uncompressed/ compressed signal in communication systems, effects of transmission error.

TS 4356	Network Design and Analysis	3 Credits
Prerequisite:	TS 3256 Computer Networks and Open Systems	5 creates
Overview of current net	work technologies, architectures and services, principles of network and ion, analysis of user requirements, restrictions and design tradeoffs, conce	
TS 4357 Prerequisite:	Cellular Mobile Systems TS 4255 Wireless Communication Systems	3 Credits
Basics of cellular mobi	le radio systems, propagation effects and spectral considerations, ce work architecture and cellular system applications.	ellular mobile systems
TS 4363 Prerequisite:	Optical Fiber Communications TS 1201 Physics	3 Credits
Introduction to optical cal components: conner receivers, noise in optic	communication systems, types of optical fibers cable, attenuation and ectors, splices and couplers, optical sources, optical transmitters, opt cal fiber communication systems, digital optical fiber systems, BER pe applications (WDM and DWDM).	ical detectors, optical
TS 4365 Prerequisite:	Antenna Systems and Design TS 4368 Introduction to Electromagnetic Field	3 Credits
Basic properties of tra	ansmitting and receiving antennas, antenna parameters, polarizatio tenna arrays, adaptive antenna, broadband antenna design, and antenna	
TS 4366	Information Theory and Coding	3 Credits
Introduction to basic pri	inciples and fundamental concepts in information theory in the context ding and channel coding for reliable transmission of digital informati techniques.	
TS 4367 Prerequisite:	Introduction to Simulation for Telecommunications System IT 2172 Programming Workshop	3 Credits
	nponents of simulation models in communication systems and commu	inication system mod-
TS 4370 Prerequisite:	Performance Evaluation of Telecommunication Systems DA 2203 Probability and Statistical Methods	3 Credits
Queuing theory for con	nmunication systems, workload characterization, communication netwo mance analysis, performance measurement techniques and monitor tools.	
TS 4388 Prerequisite:	Scalable Internetworking TS 4261 Interworking Workshop I	3 Credits
	designing, implementing, maintaining and troubleshooting today's consecure networks and performance efficiency of networks.	omplex enterprise net-
TS 4389 Prerequisite:	Network Security TS 3256 Computer Networks and Open Systems	3 Credits
	security, security principles, network threats and countermeasures, n	etwork security proto-

Introduction to network security, security principles, network threats and countermeasures, network security protocols, technologies, tools/appliances (i.e. firewalls, IDS, IPS, IPSec, VPN), and audit, design, and implementation of secured networks.

3 Credits

Seminar in the advancement of telecommunications science or new research that may affect telecommunications theory. Experts in specialized areas from governmental or private sectors may be invited to lecture on specialized topics. Students may be organized into groups for special activities on interesting topics.

TS 4391	Seminar in Information and Communication Technology	3 Credits
Prerequisite:	Fourth-year students and by the consent of the instructor	

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Seminar in the use of ICT, principles of problem solving using ICT and applications of ICT, effects of their application when developing ICT solutions to problems, entrepreneurship regarding to various applications in ICT, advancement in telecommunication and ICT research that may affect information society. Experts in specialized areas from governmental or private sectors may be invited to lecture on specialized topics.

TS 4400-99 Prerequisite:	Selected Topics Fourth-year students and by the consent of the instructor	3 Credits
Special topics in telecomr	nunications science that are appropriate for detailed study and research nts' needs and the instructors' requirements and is in accordance with t	
VIS 1101	Visual Communication Design I	3 Credits
	problem solving, marks, symbols, semiotics, simplification and transla	tion in visual lan-
VIS 2102	Visual Communication Design II	3 Credits
Prerequisite:	VIS 1101 Visual Communication Design I	
	ial composition, history of layout design as well as experimental design stru	ctures.
VIS 2103	Print Production	3 Credits
Print production process to dustrial printing of books,	for visual communication design from basic printing such as wood cut , packaging and various types of media, printing process such as offse s process, print material, special technique in printing including printing sub	t printing, Gravure
VIS 2104 Prerequisite:	Advanced Typography ART 2010 Typography	3 Credits
	deployment of type as visual literature, exploration of the typography desig	ın.
VIS 2105 Prerequisite:	Visual Communication Design III VIS 2102 Visual Communication Design II	3 Credits
	problem analysis and its solution to business entity, corporate identity	/ design, branding
VIS 3106	Sketch Design	3 Credits
Practice in 2 dimensional	and 3 dimensional sketches with various techniques and medium, with skill development such as structuring, shading, and shadowing into ba	
VIS 3107 Prerequisite:	Visual Communication Design IV VIS 2105 Visual Communication Design III	3 Credits

Confluent accessibilities of data and information, information design principles, history, design process, formats, analysis, experiments and advertising series.

VIS 3108	Publication Design	3 Credits
Prerequisite:	VIS 2105 Visual Communication Design III	

Desktop publishing applications, page layout, basic mechanical preparation for printing industry, characteristics of different publications such as catalog, annual report or magazine together with further exploration in the new emerging industry of digital media publication.

VIS 3110 Prerequisite:	Visual Communication Design V VIS 3107 Visual Communication Design IV	3 Credits
Current climate of vis	ual culture and its impact to our social movement, visual convergen conditions and advertising campaign.	nce of higher design sensi-
VIS 3111 Prerequisite:	Package Design VIS 2105 Visual Communication Design III	3 Credits
Application of design	and communication principles to package design and marketing and consumer analysis, materials, and packaging industry.	goals including package
VIS 3112 Prerequis <mark>ite:</mark>	Typeface Design VIS 2105 Visual Communication Design III	3 Credits
Principles of typeface	design, classical typefaces and the analysis of typographic forms befaces for professionalism and practical usage.	and proportions, the cre-
VIS 3409 Prerequisite:	Idea-Generation Techniques VIS 2105 Visual Communication Design III	3 Credits
	dea, idea generated techniques, mind-mapping, brainstorming, cor rious medias.	ncept development, execu-
VIS 3413 Prerequisite:	Advertising Graphics VIS 2105 Visual Communication Design III	3 Credits
Visual elements of eff	ective advertisements, color application, typography, illustration, art osition, various kinds of medias.	direction, mood and tone,
VIS 3414 Prerequisite:	Copywriting VIS 2105 Visual Communication Design III	3 Credits
	ing, analysis of information, structure of content, art of writing, pers	uasive techniques, applica-
VIS 4115	Design Management	3 Credits
Contemporary issues	of the cultural, technological, and environmental influences of design the transmission of the transmission of the test of tes	
VIS 4116 Prerequisite:	Art Thesis I VIS 3110 Visual Communication Design V	3 Credits
Students are required	to choose their own topics which have to be approved by the T prmation gathering and analysis.	hesis Committee. Students
VIS 4117 Prerequisite:	Signage System and Wayfinding Design VIS 2105 Visual Communication Design III	3 Credits
	nage system and way finding, conceptual development, hands-on pngs, and 3D models.	production of signage, way
VIS 4118 Prerequisite:	Display and Exhibition Design VIS 2105 Visual Communication Design III	3 Credits
Application of graphic	cs to 3-dimensional displays based on commercial objectives, func- veral types of displays: P.O.P., kiosk, including exhibition and event design	
VIS 4121	Self Promotion	3 Credits
	gies, utilizing new technology, synthesis of media in the promotio	on of contemporary design

Self promotion strategies, utilizing new technology, synthesis of media in the promotion of contemporary design work, preparation for the business aspects of a design career, portfolio and professional presentation techniques.

VIS 4122 Prerequisite:	Art Thesis II VIS 4116 Art Thesis I	6 Credits
	d to continue their project and complete sketch designs f itudents must finish their final project and organize their Art	
VIS 4123	Individual Project	3 Credits
	per level students to delve into specific areas of study whe etailed studies may include integrated branding, public serv	
VIS 4124	Book Binding	3 Credits
		hand, process of how to become books inding, cross side stitch or slab binding.
or magazines for prin pamphlet stitch bind types of book covers.	it production, such as perfect binding, flat back journal bi ing, and sewing with four needles including process pre Sketch Fashion Design	inding, cross side stitch or slab binding,
or magazines for prir pamphlet stitch bind types of book covers. VIS 4125 Creative expression i	nt production, such as perfect binding, flat back journal bi ling, and sewing with four needles including process pre	inding, cross side stitch or slab binding, eparing the signatures to making many 3 Credits ping, and pattern drafting, importance
or magazines for prir pamphlet stitch bind types of book covers. VIS 4125 Creative expression i of communication, cri VIS 4419	nt production, such as perfect binding, flat back journal bi ling, and sewing with four needles including process pre Sketch Fashion Design n fashion design, fashion sketching, creative design, draj	inding, cross side stitch or slab binding, eparing the signatures to making many 3 Credits ming, and pattern drafting, importance
or magazines for prir pamphlet stitch bind types of book covers. VIS 4125 Creative expression i of communication, cri VIS 4419 Prerequisite:	nt production, such as perfect binding, flat back journal bi ling, and sewing with four needles including process pre Sketch Fashion Design n fashion design, fashion sketching, creative design, drap tical reasoning and effects they have on this diversified and Production Design VIS 3413 Advertising Graphics various advertising medias, pre-production, 2 dimension	inding, cross side stitch or slab binding, eparing the signatures to making many 3 Credits ping, and pattern drafting, importance global industry. 3 Credits

Principles of campaign design, campaign development, information analysis, concept and design development, application in mass media and below the line.









UNDERGRADUATE ADMISSION SCHEDULES ACADEMIC YEAR 2015

ACADEMIC YEAR 2015

Semester 1/2015 : August 2015	
Application Forms Available	December 1, 2014 - March 17, 2015
Examination Date	On Application Date
Examiniation Results	On Application Date
Intensive Courses Registration	March 1 - 21, 2015
Intensive Courses	March 23 - June 6, 2015
Foundation Courses	June 8 - July 17, 2015
Registration Period	July 27 - August 6, 2015
Instruction Begins	August 10, 2015
Semester 2/2015 : January 2016	
Application Forms Available	October 15 - November 5, 2015
Examination Date	On Application Date
Examiniation Results	On Application Date
Intensive Courses Registration	November 21 - 22, 2015
Intensive Courses	November 23 - December 18, 2015
Registration Period	December 29-30, 2016
Instruction Begins	January 4, 2016

INTERNATIONAL ADMISSIONS

For students returning from abroad or Non-Thai High School

Semester 1/2015 : October 2015	
Application Forms Available	September 1 - October 1, 2015
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Period	October 2, 2015
Instruction Begins	October 5, 2015
Semester 2/2015 : March 2016	
Application Forms Available	January 5 - February 29, 2016
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Period	March 1, 2016
Instruction Begins	March 2, 2016
Summer Session : June 2016	
Application Forms Available	April 20 - June 2, 2016
Placement Test	On Application Date
Placement Test Results	On Application Date
Registration Day	June 3, 2016
Instruction Begins	June 6, 2016



ASSUMPTION UNIVERSITY

Hua Mak Campus 592/3 Ramkhamhaeng 24, Hua Mak, Bangkok Thailand 10240 Tel. (662) 719-1919 Fax. (662) 719-1509

Suvarnabhumi Campus

88 Moo 8 Bang Na-Trad Km. 26 Bangsaothong, Samuthprakarn Thailand 10540 Tel. (662) 723-2222 Fax. (662) 707-0408 Sathorn Campus 101, Soi 13 Sathorntai, Yan Nawa, Sathorn, Bangkok, Thailand 10120 Tel. (662) 675-5769

ABAC City Campus

Zen Courses Store @ CentralWorld, 14th flr., 4, 4/5 Rajdamri Road, Phatumwan Bangkok 10330 Tel. (662) 100-9115 - 8 Fax (662) 100-9119

ACADEMIC PROGRAMS | Assumption University of Thailand

Graduate Programs

- Graduate School of Business
- Master of Business Administration
- (Marketing, Finance, General Management, Entrepreneurship) M.B.A. Day/Evening, Hua Mak Campus)
 - M.B.A. Full Time, Suvarnabhumi Campus
 - i M.B.A. (Mobile Learning Integration)
 - M.B.A. (Weekend-Track)
- M.B.A. Professional (Day/Evening Program)
- M.B.A. Fast-Track (Hua Mak Campus/City Campus) M.B.A. Special Program (S-M.B.A.)
 - Mini M.B.A. (Professional Management Certificate)
 - - M.B.A. (Tourism Management)
- M.S. (Investment Analysis and Management)
- M.M. (Organization Development and Management)
 - Ph.D. (Hospitality and Tourism Management) Ph.D. (Organization Development)

Joint Programs and Double Degree Programs with Overseas Universities

United Kingdom

University of the West of England, UK (Double Degree) M.B.A. + MSc. (International Management) M.B.A. + MSc. (Business Management)

Anglia Ruskin University, UK (Double Degree) M.B.A. + MSc. (Supply Chain Management) M.B.A. + MA (International Business) M.B.A. + MSc. (Management) M.B.A. + MSc. (Marketing)

M.B.A. + MSc in Management (Human Resources) M.B.A. + MSc in Management (Entrepreneurship) M.B.A. + MSc in Management (Public Services) University of Brighton, UK (Double Degree) M.B.A. + MSc in Management (Innovation) M.B.A. + MSc in Management

University of Applied Sciences Mainz, Germany (Double Degree) M.B.A. + MA. IB (International Business)

ISA

M.B.A. + M.B.A. (Marketing Management, Global Management City University of Seattle, USA (Double Degree) Project Management, Finance

Yunnan University of Finance and Economics, China M.B.A. + M.B.A. (International/Chinese Program)

M.B.A. + LMFAF (Master of Financial Analysis in Investment) M.B.A. + LMMM (Master of Marketing Management) M.B.A. + LMPA (Master of Professional Accounting) La Trobe University, Australia (Double Degree) M.B.A. + LMFA (Master of Financial Analysis)

Australian Catholic University, Australia (Triple Degree) M.B.A. + LMIB (Master of International Business)

M.B.A. + 2 Degrees: M.B.A. and Master of Human Resource

M.B.A. + 2 Degrees: M.B.A. and Master of Professional Accounting M.B.A. + 2 Degrees: M.B.A. and Master of Business Information M.B.A. + 2 Degrees: M.B.A. and Master of Marketing

Switzerland

M.B.A. + MIB (Master of International Business in Hospitality and Cesar Ritz Colleges, Switzerland - Brig Campus Tourism Management)

France

M.B.A. + M.Sc. (Marketing of Innovative Technologies) **Toulouse University, France**



- M. Ed. (Educational Administration)
- M. Ed. (Curriculum and Instruction)
 - M.S. (Counseling Psychology)
 - M.A. (Philosophy and Religion)
 - Ph.D. (Counseling Psychology)
- Ph.D. (Philosophy and Religion) Ph.D. (Educational Leadership)
- Graduate School of English
- M.A. (English Language Teaching) MA
- (Professional English Media Studies) Ph.D. (English Language Teaching)

Graduate School of e-Learning (GSeL) **(:**)

- M.S. (Management)
- M.S. (Information and Communication Technology) M.Ed. (Teaching and Technology)
 - Ph.D. (Teaching and Technology) Ph.D. (eLearning Methodology
- ncent Mary School of Science and Technology *
 - M.S. (Information Technology) M.S. (Computer Science)
 - M.S. (Technology Management)
- M.S. (Communication and Computer Network Technology)
 - Ph.D. (Computer Science)
- Ph.D. (Information Technology)
- (Communication and Computer Network Technology) Ph.D. (

Martin de Tours School of Management and Economics M.S. (Supply Chain Management)

- Ph.D. (Business Administration) M.S. (Finance and Economics)

ABAC School of Law

- M.A. (International Law and Diplomacy)
- LL. M. (Business Law), (International Program) LL. M. (Business Law). (Thai Program)



ABAC School of Biotechnology M.S. (Food Biotechnology) *

- Ph.D. (Food Biotechnology) *
- University of California at Davis, USA

sections may be amended without prior notice, contingent upon changing circumstances or for any other reasons. Students should check with the University at the time of enrollment or registration, whether any updated information is available. tert sesingcose virensity notigenus A. (CLOS VEM) notacibilate at the time of its publication (ALOS VEM) notacibilate at the internation of the province of the province at the internation of the province of the province at the provinc

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	 Business Economics (B.Econ) Management (Commerce Concentration) (B.B.A.) AU- Wollongong Program (B.B.A.) AU- Wollongong Program (Authority) 		Bernadette de Lourdes School of Nursing Science • Nursing Science (B.N.S.)
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	 Business English (B.A.) Business French (B.A.) Business Chinese (B.A.) 		 New Media Communication (B.Com.Arts.) Performance Communication (B.Com.Arts.) Visual Communication Design (B.F.A.)
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111	ABAC School of Biotechnology • Food Technology (B.S.) • Agro- Industry (B.S.)		ABAC School of Music • Music Business (B.A.) • Music Performance (B.M.)

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