# Undergraduate Course Placement Major (Mechanical Engineering)

Year	First Trimester	Cr	Second Trimester	Cr	Third Trimester	Cr
=RESHMAN	SCI02 1111 Fundamental Chemistry I	4	SCI03 1002 Calculus II	4	SCI03 1005 Calculus III	4
	SCI02 1112 Fundamental Chemistry Laboratory I	1	SCI05 1001 Physics I	4	SCI05 1002 Physics II	4
	SCI03 1001 Calculus I	4	SCI05 1191 Physics Laboratory I	1	SCI05 1192 Physics Laboratory II	1
	IST20 1001 Digital Literacy	2	IST20 1003 Life Skills	3	IST20 1004 Citizenship and Global Citizens	3
	IST20 1002 Use of Application Programs for Learning	1	IST30 1102 English for Communication II	3	ENG31 1000 Engineering Materials I	2
正	IST30 1101 English for Communication I	3	ENG85 1020 Computer Programming I	1	General Education Elective (1)	2
	ENG85 1010 Engineering Graphics I	2				
	รวม	17	รวม	16	รวม	16
	SCI03 1003 Probability and Statistics	3	SCI03 2303 Mathematical Methods for Differential Equations	4	SCI03 2002 Numerical Methods for Computer	4
	IST20 2001 Man, Society and Environment	3	IST20 2002 Man, Economy and Development	3	IST30 1103 English for Academic Purposes	3
	ENG33 6004 Introduction to Manufacturing Processes	2	ENG85 2050 Engineering Dynamics	3	ENG85 2100 Fluid Mechanics I	3
)RE	ENG83 1001 Engineering Materials II	2				
SOPHOMORE	ENG85 2010 Introduction to Mechanical	1	ENG85 2060 Mechanical Drawing	2	ENG85 2110 Mechanics of Materials I	3
F	and Aeronautical Engineering Profession					
S	ENG85 2020 Thermodynamics I	3	ENG85 2070 Fundamentals of Electrical and Electronics	3	ENG85 2120 Mechanics of Machinery	3
			Circuitry			
	ENG85 2030 Engineering Statics	3	ENG85 2080 Manufacturing Processes Laboratory	1	ENG85 2130 Internet of Things for Engineering Application	2
	ENG85 2040 Measurement and Instrumentation	2	ENG85 2090 Safety Engineering	2		
	รวม	19	รวม	18	รวม	18
	ENG85 3010 Energy Management and Economics	19 2	IST30 1104 English for Specific Purposes	3	IST30 1105 English for Careers	3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence	2 2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning	3	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer	3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots	2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering	3 3 2	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering	3 3 3
Œ	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer	2 2 2 2 3	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design	3 3 2 3	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering	3 3 3 3
NIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots	2 2 2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering	3 3 2	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering	3 3 3
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration	2 2 2 2 3	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II	3 3 2 3 1	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2)	3 3 3 3 2
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical	2 2 2 2 3	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering	3 3 2 3	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering	3 3 3 3
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I	2 2 2 3 3	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design	3 3 2 3 1	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2)	3 3 3 3 2
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering	2 2 2 3 3 1	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II	3 3 2 3 1	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2)	3 3 3 3 2
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design	2 2 2 3 3 1 1	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3
JUNIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design	2 2 2 3 3 1 1 1 3 17	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 3 2 3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design \$7331  ENG85 4007 Pre-cooperative Education	2 2 2 3 3 1 1 1 3 17	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design  \$731  ENG85 4007 Pre-cooperative Education ENG85 4508 Mechanical Engineering Capstone Project	2 2 2 3 3 1 1 1 3 17 1 4	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 3 2 3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design  \$731  ENG85 4007 Pre-cooperative Education ENG85 4508 Mechanical Engineering Capstone Project General Education Elective (3)	2 2 2 3 3 1 1 1 3 17 1 4 2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3
SENIOR	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design  FURG85 4007 Pre-cooperative Education ENG85 4508 Mechanical Engineering Capstone Project General Education Elective (3) General Education Elective (4)	2 2 2 3 3 1 1 1 3 17 1 4 2 2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design  F131  ENG85 4007 Pre-cooperative Education ENG85 4508 Mechanical Engineering Capstone Project General Education Elective (3) General Education Elective (4) Technical Elective (2)	2 2 2 3 3 1 1 1 3 17 1 4 2 2 3	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3
	ENG85 3010 Energy Management and Economics ENG85 3020 Introduction to Artificial Intelligence ENG85 3030 Industrial Robots ENG85 3040 Heat Transfer ENG85 3050 Mechanical Vibration  ENG85 3400 Mechanical and Aeronautical Engineering Laboratory I ENG85 3018 Fundamental skill of Mechanical Engineering ENG85 3028 Machine Design  FURG85 4007 Pre-cooperative Education ENG85 4508 Mechanical Engineering Capstone Project General Education Elective (3) General Education Elective (4)	2 2 2 3 3 1 1 1 3 17 1 4 2 2	IST30 1104 English for Specific Purposes ENG85 3060 Refrigeration and Air Conditioning ENG85 3070 Fundamental of Computer Aided Engineering ENG85 3080 Thermal System Design ENG85 3410 Mechanical and Aeronautical Engineering Laboratory II ENG85 3038 Jig and Fixture Design ENG85 3048 Automatic Control Systems	3 3 2 3 1 3 4	IST30 1105 English for Careers ENG85 3058 Building System Design for Mechanical Engineer ENG85 3068 Power Plant Engineering ENG85 3078 Industrial Automation Engineering General Education Elective (2) Technical Elective (1)	3 3 3 2 3

### Grand Total 188 Credits

# Undergraduate Course Placement Major (Aeronautical Engineering)

YearFirst TrimesterCrSecond TrimesterCrThirdSCI02 1111Fundamental Chemistry I4SCI03 1002Calculus II4SCI03 1005Calculus IIISCI02 1112Fundamental Chemistry I1SCI05 1001Physics I4SCI05 1002Physics IILaboratory I	Trimester Cr 4
SCI02 1112 Fundamental Chemistry 1 SCI05 1001 Physics I 4 SCI05 1002 Physics II	
	4
	'
중 SCI03 1001 Calculus I 4 SCI05 1191 Physics Laboratory I 1 SCI05 1192 Physics Lab	pratory II 1
School 101   Calcado 1   School 101   Figure 2   ST20 1003   Life Skills   3   IST20 1004   Citizenship	and Global Citizens 3
SCI03 1001 Calculus I 4 SCI05 1191 Physics Laboratory I 1 SCI05 1192 Physics Lab IST20 1001 Digital Literacy 2 IST20 1003 Life Skills 3 IST20 1004 Citizenship IST20 1002 Use of Application 1 IST30 1102 English for Communication II 3 ENG31 1000 Engineering	
Programs for Learning ENG85 1020 Computer Programming I 1 General Education Elective	
IST30 1101 English for Communication I 3	,
ENG85 1010 Engineering Graphics I 2	
724 17 724 16	รวม 16
	ethods for Computer 4
	cademic Purposes 3
ENC32 6004 Introduction to Manufacturing Processes 2 ENC95 2050 Engineering Dynamics 2 ENC95 2100 Eluid Macha	'
ENG83 1001 Engineering Materials II  ENG85 2010 Introduction to Manufacturing Processes  ENG85 2060 Mechanical Drawing  ENG85 2010 Introduction to Mechanical and  Aeronautical Engineering Profession  Aeronautical Engineering Profession  ENG85 2070 Fundamentals of Electrical and Electronics Circuitry  ENG85 2130 Internet of T	
Section 1 Support Section 2010 Introduction to Mechanical and 1 ENG85 2070 Fundamentals of Electrical and Electronics Circuitry 3 ENG85 2120 Mechanics of Electronics Circuitr	
Aeronautical Engineering Profession ENG85 2130 Internet of T	nings for Engineering Application 2
ENG85 2020 Thermodynamics I 3 ENG85 2080 Manufacturing Processes Laboratory 1	3 3 3 [1]
ENG85 2030 Engineering Statics 3 ENG85 2090 Safety Engineering 2	
ENG85 2040 Measurement and Instrumentation 2	
รวม 19 รวม 18	รวม 18
ENG85 3010 Energy Management and Economics 2 IST30 1104 English for Specific Purposes 3 IST30 1105 English for Ca	reers 3
ENG85 3020 Introduction to Artificial Intelligence 2 ENG85 3060 Refrigeration and Air Conditioning 3 ENG85 3051 Aircraft Autor	natic Control 4
ENG85 3030 Industrial Robots 2 ENG85 3070 Fundamental of Computer Aided Engineering 2 ENG85 3061 Aircraft Desig	3
g ENG85 3040 Heat Transfer 3 ENG85 3080 Thermal System Design 3 ENG85 3071 Aircraft Power	Plant 3
ENG85 3040 Heat Transfer  3 ENG85 3080 Thermal System Design  3 ENG85 3071 Aircraft Power  BNG85 3050 Mechanical Vibration  3 ENG85 3080 Thermal System Design  3 ENG85 3071 Aircraft Power  Comparison of the American Engineering Laboratory II 1 General Education Elective (2)	2
RNG85 3400 Mechanical and Aeronautical 1 ENG85 3031 Aircraft Structures 3 Technical Elective (1)	3
Engineering Laboratory I	
ENG85 3011 Fundamental Skill of Aeronautical Engineering 1 ENG85 3041 Flight Mechanics 3	
ENG85 3021 Aerodynamics 3	
รวม 17 รวม 18	รวม 18
ENG85 4003 Pre-cooperative Education 1 ENG85 4013 Cooperative Education I 8 Free Elective (1)	4
g ENG85 4501 Aeronautical Engineering Capstone Project 4 Free Elective (2)	4
ENG85 4501 Aeronautical Engineering Capstone Project 4 General Education Elective (3)  Coparal Education Flority (4)  Coparal Education Flority (4)	
General Education Elective (4)	
Technical Elective (2)	
Technical Elective (2)	
Technical Elective (2)  Technical Elective (3)  3	

### Grand Total 188 Credits

## Undergraduate Course Placement Major – Minor (Mechanical Engineering - Entrepreneurship)

Year		First Trimester	Cr		Second Trimester	Cr	Third Trimester	Cr
	SCI02 1111	Fundamental Chemistry I	4	SCI03 1002	Calculus II	4	SCI03 1005 Calculus III	4
	SCI02 1112	Fundamental Chemistry Laboratory I	1	SCI05 1001	Physics I	4	SCI05 1002 Physics II	4
Z	SCI03 1001	Calculus I	4	SCI05 1191	Physics Laboratory I	1	SCI05 1192 Physics Laboratory II	1
≩	IST20 1001	Digital Literacy	2	IST20 1003	Life Skills	3	IST20 1004 Citizenship and Global Citizens	3
FRESHMAN		Use of Application Programs for Learning	1	IST30 1102	English for Communication II	3	ENG31 1000 Engineering Materials I	2
	IST30 1101	English for Communication I	3	ENG85 1020	Computer Programming I	1	General Education Elective (1)	2
	ENG85 1010	Engineering Graphics I	2		, , ,			
		รวม	17		รวม	16	รวม	16
	SCI03 1003	Probability and Statistics	3	SCI03 2303	Mathematical Methods for Differential Equations	4	SCI03 2002 Numerical Methods for Computer	4
	IST20 2001	Man, Society and Environment	3	IST20 2002	Man, Economy and Development	3	IST30 1103 English for Academic Purposes	3
	IST50 2401	Entrepreneurship and New Venture Creation	3	IST50 2402	Go-to-Market Strategies for Innovative Product and Service	2	ENG85 2100 Fluid Mechanics I	3
뿠	ENG33 6004	Introduction to Manufacturing Processes	2	ENG85 2050	Engineering Dynamics	3	ENG85 2110 Mechanics of Materials I	3
Š	ENG83 1001	Engineering Materials II	2	ENG85 2060	Mechanical Drawing	2	ENG85 2120 Mechanics of Machinery	3
SOPHOMORE	ENG85 2010	Introduction to Mechanical	1	ENG85 2070	Fundamentals of Electrical and Electronics Circuitry	3	ENG85 2130 Internet of Things for Engineering Application	2
S		and Aeronautical Engineering Profession						
	ENG85 2020	Thermodynamics I	3	ENG85 2080	Manufacturing Processes Laboratory		General Education Elective (2)	
	ENG85 2030	Engineering Statics	3	ENG85 2090	Safety Engineering	1		2
	ENG85 2040	Measurement and Instrumentation	2			2		
		รวม	22		รวม	20	รวม	20
	IST50 2403	Business Plan and Financing	3	IST30 1104	English for Specific Purposes	3	IST30 1105 English for Careers	3
	ENG85 3010	Energy Management and Economics	2	ENG85 3060	Refrigeration and Air Conditioning	3	ENG85 3058 Building System Design For Mechanical Engineer	3
	ENG85 3020	Introduction to Artificial Intelligence	2	ENG85 3070	Fundamental of Computer Aided Engineering	2	ENG85 3068 Power Plant Engineering	3
OR	ENG85 3030	Industrial Robots	2	ENG85 3080	Thermal System Design	3	ENG85 3078 Industrial Automation Engineering	3
JUNIOR	ENG85 3040	Heat Transfer	3	ENG85 3410	Mechanical and Aeronautical Engineering Laboratory II	1	Technical Elective (1)	3
,	ENG85 3050	Mechanical Vibration	3	ENG85 3038	Jig and Fixture Design	3	Entrepreneur Elective (2)	2
	ENG85 3400	Mechanical and Aeronautical Engineering Laboratory I	1	ENG85 3048	Automatic Control Systems	4	Free Elective (1)	4
	ENG85 3018	Fundamental skill of Mechanical Engineering	1	Entrepreneur	Elective (1)	2		
	ENG85 3028	Machine Design	3					
		รวม	20		รวม	21	รวม	21
	IST50 3412	Pre-Enterprise Cooperative Education or	1	ENG85 4017	Cooperative Education I	8	IST50 4413 Enterprise Cooperative Education or	8
		Pre-Enterprise Incubation					IST50 4414 Enterprise Incubation	
SENIOR	ENG85 4007	Pre-Cooperative Education I	1					
SEN		Mechanical Engineering Capstone Project	4					
	General Educa	ation Elective (3)	2					
		ation Elective (4)	2					
	Technical Elec	• •	3					
	Technical Elec	ctive (3)	3					
	Free Elective (	(2)	4					-
	1	รวม	20		รวม	8	รวม	8

Grand Total 209 Credits

## Undergraduate Course Placement Major – Minor (Aeronautical Engineering - Entrepreneurship)

Year		Fist Trimester	Cr	T	Second Trimester	Cr	Third Trimester	Cr
	SCI02 1111	Fundamental Chemistry I	4	SCI03 1002	Calculus II	4	SCI03 1005 Calculus III	4
_	SCI02 1112	Fundamental Chemistry Laboratory I	1	SCI05 1001	Physics I	4	SCI05 1002 Physics II	4
FRESHMAN	SCI03 1001	Calculus I	4	SCI05 1191	Physics Laboratory I	1	SCI05 1192 Physics Laboratory II	1
E.	IST20 1001	Digital Literacy	2	IST20 1003	Life Skills	3	IST20 1004 Citizenship and Global Citizens	3
뿚	IST20 1002	Use of Application Programs for Learning	1	IST30 1102	English for Communication II	3	ENG31 1000 Engineering Materials I	2
	IST30 1101	English for Communication I	3	ENG85 1020	Computer Programming I	1	General Education Elective (1)	2
	ENG85 1010	Engineering Graphics I	2				General Education Elective (2)	2
		รวม	17		รวม	16	รวม	18
	SCI03 1003	Probability and Statistics	3	SCI03 2303	Mathematical Methods for Differential Equations	4	SCI03 2002 Numerical Methods for Computer	4
	IST20 2001	Man, Society and Environment	3	IST20 2002	Man, Economy and Development	3	IST30 1103 English for Academic Purposes	3
	IST50 2401	Entrepreneurship and New Venture Creation	3	IST50 2402	Go-to-Market Strategies For Innovative Product and Service	2	ENG85 2100 Fluid Mechanics I	3
쀭	ENG33 6004	Introduction to Manufacturing Processes	2	ENG85 2050	Engineering Dynamics	3	ENG85 2110 Mechanics of Materials I	3
SOPHOMORE	ENG83 1001	Engineering Materials II	2					
l	ENG85 2010	Introduction to Mechanical	1	ENG85 2060	Mechanical Drawing	2	ENG85 2120 Mechanics of Machinery	3
S		and Aeronautical Engineering Profession						
	ENG85 2020	Thermodynamics I	3	ENG85 2070	Fundamentals of Electrical and Electronics Circuitry	3	ENG85 2130 Internet of Things for Engineering Application	2
	ENG85 2030	Engineering Statics	3	ENG85 2080	Manufacturing Processes Laboratory	1	General Education Elective (3)	2
	ENG85 2040	Measurement and Instrumentation	2	ENG85 2090	Safety Engineering	2		
		รวม	22		รวม	20	รวม	20
	IST50 2403	Business Plan and Financing	3	IST30 1104	English for Specific Purposes	3	IST30 1105 English for Careers	3
	ENG85 3010	Energy Management and Economics	2	ENG85 3060	Refrigeration and Air Conditioning	3	ENG85 3051 Aircraft Automatic Control	4
	ENG85 3020	Introduction to Artificial Intelligence	2	ENG85 3070	Fundamental of Computer Aided Engineering	2	ENG85 3061 Aircraft Design	3
۳	ENG85 3030	Industrial Robots	2	ENG85 3080	Thermal System Design	3	ENG85 3071 Aircraft Power Plant	3
JUNIOR	ENG85 3040	Heat Transfer	3	ENG85 3410	Mechanical and Aeronautical Engineering Laboratory II	1	Technical Elective (1)	3
$\dashv$	ENG85 3050	Mechanical Vibration	3	ENG85 3031	Aircraft Structures	3	Free Elective (1)	4
	ENG85 3400	Mechanical and Aeronautical	1	ENG85 3041	Flight Mechanics	3		
		Engineering Laboratory I						
	ENG85 3011	Fundamental Skill of Aeronautical Engineering	1	Entrepreneur	Elective (1)	2		
	ENG85 3021	Aerodynamics	3					
		รวม	17		รวม	20	รวม	20
	IST50 3412	Pre-Enterprise Cooperative Education or	1	ENG85 4013	Cooperative Education I	8	IST50 4413 Enterprise Cooperative Education or	8
~		Pre-Enterprise Incubation					IST50 4414 Enterprise Incubation	
SENIOR	ENG85 4003	Pre-cooperative Education	4					
SE	ENG85 4501	Aeronautical Engineering Capstone Project	1					
	General Educ	tation Elective (4)	2					
	Technical Ele	ective (2)	3					
	Technical Ele	ective (3)	3					
	Entrepreneur	Elective (2)	2					
	1	(2)	4	1				
	Free Elective	(2)	4					

Grand Total 209 Credits