

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Aerospace Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications or MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
MAT 230 or MAT 231	MATH 129 Calculus II	3
EEE 220	ECE 175 Computer Programming for Engineering Applications	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
ECE 105	AME 105 Introduction to MATLAB I	1
3RD SEMESTER		
ECE 211	CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
ECE 216 and ECE 216LL	ABE 221 Introduction to CAD	3
	AME 205 Introduction to MATLAB II	1
4TH SEMESTER		
AGEC-S	General Education	3
AGEC-S	General Education	3
ECE 212	AME 250 Dynamics	3
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
	AME 220 Intro to Aerospace Engineering	3
	AME 230 Thermodynamics	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Biomedical Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL 102 First-Year Composition	3
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
	BME 295C Challenges in Biomedical Engineering	1
3RD SEMESTER		
ECE 211	*CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
BIO 181	MCB 181R&L Introductory Biology I and Laboratory	4
AGEC-S	General Education	3
EEE 220	ECE 175 Intro Computer Programming	3
	BME 214 Introduction Biomechanics	3
	ABE 284 Biosystems Thermal Engineering (Fall Only) or *AME 230	3
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
BIO 201	PSIO 201 Human Anatomy and Physiology I	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
ECE 207	BME 210 Intermediate BME Design	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Biosystems Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS142, PHYS 241)	4
AGEC-S	General Education	3
3RD SEMESTER		
BIO 181 or AGS 164	MCB 181R&L Introductory Biology I and Lab	4
ECE 211	CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
	ABE 284 Biosystems Thermal Engineering	3
	ABE 201 Introduction to Biosystems Engineering	2
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
BIO 182 or BIO 205 or BIO 201	ECOL 182 L&R Introductory Biology II or MIC 205 A & L General Microbiology or PSIO 201 Human Anatomy and Physiology I	4
AGEC-S	General Education	3
AGEC-S	General Education	3
	ABE 205 Engineering Analytic Computer Skills	3

Maricopa Community Colleges to UA College of Engineering

Two Year Plan for Chemical Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1st Semester		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122B or MATH 125	3-5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2nd Semester		
MAT 230 or MAT 231	MATH 129 Calculus II	3
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
ENG 102	ENGL 102 First-Year Composition	3
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics	4
AGEC-S	General Education	3
	AME 105 Introduction to MATLAB I	1
3rd Semester		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
CHM 235	CHEM 241A Lectures in Organic Chemistry	3
CHM 235LL	CHEM 243A Organic Chemistry Laboratory	1
AGEC-S	General Education	3
	AME 205 introduction to MATLAB II	1
	CHEE 201 Elements of Chemical Engineering I	3
	CHEE 201L Elements of Chemical Engineering I- Computational Lab	1
4th Semester		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
CHM 236	CHEM 241B Lectures in Organic Chemistry	3
AGEC-S	General Education	3
	CHEE 202 Elements of Chemical Engineering II	4
	CHEE 203 Chemical Engineering Heat Transfer and Fluid Flow	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Civil Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B, MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
BIO 181 or GLG 101 & 103	MCB 181R&L Introductory Biology I and Laboratory or GEOS 251 Physical Geology	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121	PHYS 141 Introductory Mechanics	4
AGEC-S	General Education	3
3RD SEMESTER		
ECE 211	CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131 or CHM 152 & 152LL	PHYS 241 Introductory Electricity and Magnetism or CHEM 152 General Chemistry II	4
AGEC-S	General Education	3
	CE 210 Engineering Graphics	3
4TH SEMESTER		
ECE 215	CE 215 Mechanics of Solids	3
AGEC-S	General Education	3
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
CET 101	CE 251 Elementary Surveying	3
	CE 260 Computer Programming	1
	CE 218 Mechanics of Fluids	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Electrical & Computer Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B OR MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
EEE 220	ECE 175 Computer Programming for Engineering Applications	3
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 115	PHYS 141 Introductory Mechanics	4
AGEC-S	General Education	3
3RD SEMESTER		
EEE 120	ECE 274A Digital Logic	4
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
PHY 116	PHYS 241 Electricity & Magnetism	5
	ECE 275 Computer Programming for Engineering Applications	3
4TH SEMESTER		
EEE 202	ECE 220 Basic Circuits	5
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
MAT 227	MATH 243 Discrete Mathematics in Computer Science	3
AGEC-S	General Education	3
PHY 241	PHYS 143 Optics & Thermodynamics	5

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Engineering Management

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B, MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL 102 First-Year Composition	3
EEE 220 or CSC 110	ECE 175 Computer Programming for Engineering Applications or CSC 127A Introduction to Computer Science	3
AGEC-S	General Education	3
3RD SEMESTER		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics (PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
AGEC-S	General Education	3
	CHEE 201 Elements of Chemical Engineering I or AME 230 Thermodynamics	3
	SIE 265 Engineering Management I	3
4TH SEMESTER		
ECE 211	CE 214 Statics	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
	SIE 295S Systems & Industrial Engineering Sophomore Colloquium	1
	SIE 270 Mathematical Foundations of Systems and Industrial	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Environmental Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1st Semester		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3-5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
AGEC-S	General Education	3
2nd Semester		
MAT 230 or MAT 231	MATH 129 Calculus II	3
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
ENG 102	ENGL 102 First-Year Composition	3
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics	4
AGEC-S	General Education	3
	AME 105 Introduction to MATLAB I	1
3rd Semester		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
CHM 235	CHEM 241A Lectures in Organic Chemistry	3
CHM 235LL	CHEM 243A Organic Chemistry Laboratory	1
AGEC-S	General Education	3
	AME 205 introduction to MATLAB II	1
	CHEE 201 Elements of Chemical Engineering I (Fall only)	3
	CHEE 201L Elements of Chemical Engineering (Lab)	1
	ENVS 200 Introduction to Soil Science	3
4th Semester		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
	CHEE 202 Elements of Chemical Engineering II (Spring only)	4
	CHEE 370R Environmental and Water Engineering	3
	CHEE 295E Careers in Environmental Engineering	1
	ENGR 211C Engineering Science Module - Statics	1

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Industrial Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B, MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL or BIO 181	CHEM 152 General Chemistry II or MCB 181R/L Intro Biology I and Lab	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
EEE 220 or CSC 100	ECE 175 Computer Programming for Engineering Applications or *CSC 127A Introduction to Computer Science	3/4
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115 & 116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
3RD SEMESTER		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
	SIE 250 Introduction to Systems Engineering	3
	SIE 277 Object-Oriented Modeling and Design	3
4TH SEMESTER		
AGEC-S	General Education	3
AGEC-S	General Education	3
	SIE 265 Engineering Management I	3
	SIE 270 Mathematical Foundations of SIE	3
	SIE 295S Systems & Industrial Engineering Sophomore Colloquium	1
	ENGR 211 (Excluding ENGR 211P)	1

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Material Science & Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B, MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition - AGEC	3
AGEC-S	General Education	3
2ND SEMESTER		
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL 102 First-Year Composition - AGEC	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
	MSE 110 Solid State Chemistry	4
3RD SEMESTER		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
	MSE 222 Introduction to Materials Science	3
	MSE 345 Thermodynamics	4
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
AGEC-S	General Education	3
	MSE 223R Introduction to Materials Science & Engineering II	3
	MSE 223L Materials Processing Laboratory	2
	MSE 365 Structure and Properties of Materials I	4

SOPHOMORE YEAR

MATH 223 VECTOR CALCULUS	4	MATH 254 INTRO ORD DIFF	3
PHYS 241 INTRO ELEC+MAGNETISM	4	EQUATIONS	
MSE 222 INTRO MAT SCIENCE I	3	MSE 223L MATERIALS PROCESSING	2
MSE 280 Intro to Comp methods in MSE	2	LAB	
Tier 1 TRAD*	3	MSE 223R INTRO MAT SCIENCE II	3
		MSE 345 - Thermodynamics	4
		Tier 1 INDV*	3
	16		
Total		Total	15

JUNIOR YEAR

MSE TECH ELECTIVE**	3	MSE 360L MATERIALS LAB	1
MATH ELECTIVE***	3	MSE TECH ELECTIVE**	3
MSE 370 – Mechanical Behavior of Materials	3	MSE 480 ADV CHARAC METHODS IN MSE	3
ECE 207 ELEMENTS ELECTRICAL ENGR		MSE 415 TRANSPORT/KINETICS	
MSE 365 – Physical Properties of Materials	3	ADV BASIC SCI ELEC	4
	3		3
Total		Total	14
	15		

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Mechanical Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 12AA/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
EEE 220	ECE 175 Computer Programming for Engineering Applications	3
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
ECE 105	AME 105 Introduction to MATLAB I	1
3RD SEMESTER		
ECE 211	CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
ECE 216 & 216LL	ABE 221 Introduction to Computer Aided Design	3
AGEC-S	General Education	3
4TH SEMESTER		
ECE 212	AME 250 Dynamics	3
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
AGEC-S	General Education	3
	ECE 207 Elements of Electrical Engineering	3
	AME 205 Introduction to MAT LAB II	1
	AME 230 Thermodynamics	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Mining Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B, MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL	CHEM 152 General Chemistry II or	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
3RD SEMESTER		
ECE 211	CE 214 Statics	3
GLG 101 & 103	GEOS 251 Physical Geology	4
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
AGEC-S	General Education	3
	MNE 205 Intro to Mining Engineering	3
	MNE 296A Mineral Resource Engineering Topics	1
	MNE 297A Underground Mine Safety	1
4TH SEMESTER		
ECE 215	CE 215 Mechanics of Solids	3
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
	MNE 210 Mineralogy and Petrology for Engineers	2
	MNE 204 Introduction to Electric Circuits and Mine Power Systems	1

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Optical Sciences & Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
AGEC-S	General Education	3
	MSE 110 Solid State Chemistry	4
3RD SEMESTER		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
	OPTI 201R Geometrical and Instrumental Optics I (Fall only)	3
	OPTI 201L Geometrical and Instrumental Optics Lab I (Fall only)	1
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
EEE 202	ECE 220 Basic Circuits	5/3
AGEC-S	General Education	3
	OPTI 202R Geometrical and Instrumental Optics II (Spring only)	3
	OPTI 202L Geometrical and Instrumental Optics Lab II (Spring only)	1
	OPTI 280 Computer Programming (Spring only)	1
	OPTI 240 Semiconductor Physics and Lasers	3

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Systems Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL or BIO 181 or BIO 181XT	CHEM 152 General Chemistry II or MCB 181R/L Intro Biology and Lab	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
EEE 220 or CSC 220	ECE 175 Computer Programming for Engineering Applications or *CSC 127A Introduction to Computer Science	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS 142, PHYS 241)	4
3RD SEMESTER		
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
AGEC-S	General Education	3
	SIE 250 Introduction to Systems Engineering	3
	SIE 277 Object-Oriented Modeling and Design	3
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
AGEC-S	General Education	3
AGEC-S	General Education	3
	SIE 265 Engineering Management I	3
	SIE 270 Mathematical Foundations of SIE	3
	SIE 295S Systems & Industrial Engineering Sophomore Colloquium	1