

# AEROSPACE ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B, or Math 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I, or Chemistry 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
Tier I General Education	AGEC-S
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
ECE 175 Computer Programming for Engineering Applications	ENG 175IN
AME 105 Introduction to MATLAB I	UA ONLY
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
ABE 221 Introduction to Computer Aided Design (CAD)	ENG 122IN
Tier I General Education	AGEC-S
AME 205 Introduction to MATLAB II	UA ONLY
<b>4th Semester</b>	
AME 230 Thermodynamics	ENG 232
AME 250 Dynamics	ENG 220
MATH 254 Intro to Ordinary Differential Equations	MAT 262
Tier I General Education	AGEC-S
AME 220 Introduction to Aerospace Engineering	UA ONLY

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B, or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I, or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210, PHY 210IN, PHY 210LB
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN OR CHM 152IN
ARCE 295 Intro to Architectural Engineering	
ARC 220 History of Applied Building Technology	
<b>4th Semester</b>	
CE 218 Mechanics of Fluids	ENG 218
MATH 254 Intro to Ordinary Differential Equations	MAT 262
CE 215 Mechanics of Materials	
Tier I General Education	AGEC-S
ARCE 210 Build Information Modeling	
ARCE 223 Environmental Adaptive Systems	

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105/106A	CHM 151IN
ENGL 101 or 107 or 109H First Year Composition	WRT 101
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry II or CHEM 105B/106B	CHM 152IN
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First Year Composition	WRT 102
ECE 175 Computer Programming	ENG 175IN
BME 295C Challenges in Biomedical	<b>UA ONLY &amp; SPRING ONLY</b>
<b>3rd Semester</b>	
ABE 284 Biosystems Thermal Engineering	AGEC-S
BME 214 Introduction to Biomechanics	AGEC-S
MATH 223 Vector Calculus	MAT 241
MCB 181R Introductory Biology I & MCB 181L Biotechnology Laboratory	BIO 181IN
AME 230 Thermodynamics	ENG 232
CE 214 Statics	ENG 210
<b>4th Semester</b>	
Tier I General Education	AGEC-S
MATH 254 Intro to Ordinary Differential Equations	MAT 262
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
PSIO 201 Human Anatomy and Physiology I	BIO 201IN
BME 210 Intermediate BME Design	<b>UA ONLY &amp; SPRING ONLY</b>

# BIOSYSTEMS ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry II or CHEM 105B/106B	CHM 152IN
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 of 108 or 109H First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
MCB 181R Introductory Biology I & MCB 181L Lab or PLS 240 Plant Biology	BIO 181IN or BIO 184IN
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
ABE 201 Introduction to Biosystems Engineering	UA ONLY
ABE 284 Biosystems Thermal Engineering	UA ONLY
<b>4th Semester</b>	
ECOL 182R Introductory Biology II & ECOL 182L Lab or PSIO 201 Human Anatomy and Physiology or MIC 205A/L General Microbiology	BIO 182IN or BIO 201IN or BIO 205IN
MATH 254 Intro to Ordinary Differential Equations	MAT 262
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
ABE 205 Engineering Analytic Computer Skills	UA ONLY

# CHEMICAL ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry II or CHEM 105B/106B or MSE 110 Solid State Chemistry	CHM 152IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
AME 105 Introduction to MATLAB I	<b>UA ONLY</b>
<b>3rd Semester</b>	
MATH 223 Vector Calculus	MAT 241
CHEM 241A/242A/246A Organic Chemistry & CHEM 243A/247A Lab	CHM 235IN
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
CHEE 201 Elements of Chemical Engineering I & CHEE 201L Lab	<b>UA ONLY &amp; FALL ONLY</b>
AME 205 Introduction to MATLAB II	<b>UA ONLY</b>
<b>4th Semester</b>	
MATH 254 Intro to Ordinary Differential Equations	MAT 262
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
CHEM 241B/242B/246B Lectures in Organic	CHM 236
Tier I General Education	AGEC-S
CHEE 202 Elements of Chemical Engineering II	<b>UA ONLY &amp; SPRING ONLY</b>

CHEE 203 Chemical Engineering Heat Transfer and Fluid Flow **UA ONLY & SPRING ONLY**

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 102 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102 A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
MCB 181R Introductory Biology I & MCB 181L Lab or GEOS 251 Physical Geology	BIO 181IN OR GLG 101IN
Tier I General Education	AGEC-S
PHYS 141 Introductory Mechanics or PHYS 261H	PHY 210, PHY 210IN, PHY 210LB
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H or CHEM 152 General Chemistry II or CHEM 105B/106B	PHY 216IN OR CHM 152IN
CE 210 Engineering Graphics	ENG 120IN
Tier I General Education	AGEC-S
<b>4th Semester</b>	
CE 215 Mechanics of Solids	ENG 230
CE 218 Mechanics of Fluids	ENG 218
MATH 254 Intro to Ordinary Differential Equations	MAT 262
CE 251 Elementary Surveying	ENG 130IN
Tier I General Education	AGEC-S
AME 105 Introduction to MATLAB I or CE 260 Computer Programming in Civil Engineering	<b>UA ONLY</b>

# ELECTRICAL & COMPUTER ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
ECE 175 Computer Programming for Engineering Applications	ENG 175IN
MATH 129 Calculus II	MAT 231
PHYS 141 Introductory Mechanics or PHYS 261H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
ECE 274A Digital Logic	ENG 274IN
ECE 275 Computer Programming for Engineering Applications II	ENG 276IN
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
Tier I General Education	AGEC-S
<b>4th Semester</b>	
ECE 220 Basic Circuits	ENG 282IN
PHYS 143 Introductory Optics and Thermodynamics Or PHYS 142/162H	PHY 221
MATH 243 Discrete Mathematics in Computer Science or CSC 245 Intro to Discrete Structures	MAT 227
MATH 254 Intro to Ordinary Differential Equations	MAT 262
Tier II General Education	AGEC-S



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102 A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry II or CHEM 105B/106B or MSE 110 Solid State Chemistry	CHM 152IN OR ENG 110IN
ECE 175 Computer Programming for Engineering Applications or CSC 110 Intro to Computer Programming I	ENG 175IN OR CIS 129
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
MATH 223 Vector Calculus	MAT 241
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
Tier I General Education	AGEC-S
Tier II General Education	AGEC-S
SIE 265 Engineering Management I	<b>UA ONLY</b>
ECE 207 Elements of Electrical Engineering or ECE 220 Basic Circuits	ENG 260 OR ENG 282IN
<b>4th Semester</b>	
CE 214 Statics	ENG 210
AME 230 Thermodynamics	ENG 232
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
SIE 270 Mathematical Foundations of SIE	<b>UA ONLY &amp; SPRING ONLY</b>
SIE 295S SIE Sophomore Colloquium	<b>UA ONLY &amp; SPRING ONLY</b>

# ENVIRONMENTAL ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
Tier I General Education	AGEC-S
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
CHEM 152 General Chemistry II or CHEM 105B/106B or MSE 110 Solid State Chemistry	CHM 152IN
AME 105 Introduction to MATLAB I	UA ONLY
<b>3rd Semester</b>	
CHEE 201 Elements of Chemical Engineering I & CHEE 201L Lab	UA ONLY & FALL ONLY
MATH 223 Vector Calculus	MAT 241
CHEE 295E Careers in Environmental Engineering	
CHEM 241A/242A/246A Organic Chemistry & CHEM Lab	CHM 235IN
AME 205 Introduction to MATLAB II	UA ONLY
ENVS 200 Introduction to Soil Science	
<b>4th Semester</b>	
CHEE 202 Elements of Chemical Engineering II	UA ONLY & SPRING ONLY
CHEE 370R Environmental & Water Engineering	
MATH 254 Intro to Ordinary Differential Equations	MAT 262
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
ENGR 211C Engineering Science Module - Statics	

# INDUSTRIAL ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chem. II or CHEM 105B/106B or MSE 110 Solid State Chem. or MCBR/L Intro Bio. I Lecture/Lab	CHM 152IN OR ENG 110IN
ECE 175 Comp. Programming for Engineering Applications or CSC 110 Intro to Comp. Programming I	ENG 175IN OR CIS 129
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
<b>3rd Semester</b>	
Tier I General Education	AGEC-S
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
SIE 250 Introduction to Systems and Industrial Engineering	UA ONLY & FALL ONLY
SIE 277 Object-Oriented Modeling and Design	UA ONLY & FALL ONLY
<b>4th Semester</b>	
ECE 207 Elements of Elect. Eng. or ECE 220 Basic Circuits or AME 230 Thermodynamics or CE 214 Statics or CHEE 201 Elements of Chem. Eng.	ENG 260 OR 282IN OR ENG 232 or ENG 210
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
SIE 265 Engineering Management I	UA ONLY
SIE 270 Mathematical Foundations of SIE	UA ONLY & SPRING ONLY

SIE 295S Systems and Industrial Engineering Sophomore Colloquium

UA ONLY & SPRING ONLY

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122 A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
MSE 110 Solid State Chemistry	ENG 110IN
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 - First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
MATH 223 Vector Calculus	MAT 241
Tier I General Education	AGEC-S
MSE 345 Thermodynamics	UA ONLY & FALL ONLY
MSE 222 Introduction to Materials Science I	UA ONLY & FALL ONLY
<b>4th Semester</b>	
Tier I General Education	AGEC-S
MATH 254 Intro to Ordinary Differential Equations	MAT 262
MSE 223R Introduction to Materials Science and Engineering II	UA ONLY & SPRING ONLY
MSE 223L Materials Processing Laboratory	UA ONLY & SPRING ONLY
MSE 365 Structure and Properties of Materials I	UA ONLY & SPRING ONLY

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
ECE 175 Computer Programming for Engineering Applications	ENG 175IN
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
AME 105 Introduction to MATLAB I	<b>UA ONLY</b>
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
ABE 221 Introduction to Computer Aided Design	ENG 122IN
Tier I General Education	AGEC-S
<b>4th Semester</b>	
AME 230 Thermodynamics	ENG 232
AME 250 Dynamics	ENG 220
MATH 254 Intro to Ordinary Differential Equations	MAT 262
ECE 207 Elements of Electrical Engineering	ENG 260
Tier I General Education	AGEC-S

UA COURSE

AME 205 Introduction to MATLAB II

PIMA CC COURSE

**UA ONLY**

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First Year Composition	WRT 101
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry I or CHEM 105B/106B or MSE 110 Solid State Chemistry	CHM 152IN
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
CE 214 Statics	ENG 210
MATH 223 Vector Calculus	MAT 241
GEOS 251 Physical Geology	GLG 101IN
Tier I General Education	AGEC-S
MNE 205 Intro to Mining Engineering	UA ONLY
MNE 296A Mining Seminar	UA ONLY & FALL ONLY
MNE 297A Underground Mine Safety	UA ONLY & FALL ONLY
<b>4th Semester</b>	
CE 215 Mechanics of Solids	ENG 230
MATH 254 Intro to Ordinary Differential Equations	MAT 262
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
Tier I General Education	AGEC-S
MNE 210 Mineralogy and Petrology for Engineering	UA ONLY & SPRING ONLY



# OPTICAL ENGINEERING



UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210IN
MSE 110 Solid State Chemistry	ENG 110IN
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
Tier I General Education	AGEC-S
<b>3rd Semester</b>	
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	PHY 216IN
MSE 345 Thermodynamics	UA ONLY & FALL ONLY
OPTI 201R/201L Geometrical & Instrumental Optics I	UA ONLY & FALL ONLY
<b>4th Semester</b>	
OPTI 202R - Geometrical & Instrumental Optics II	
OPTI 202L - Geometrical & Instrumental Optics Lab II	
OPTI 240 Semiconductor Physics & Lasers	SPRING ONLY
OPTI 280 Computer Programming	SPRING ONLY
MATH 254 Intro to Ordinary Differential Equations	
ECE 207 Elements of Electrical Engineering or ECE 220 Basic Circuits	

UA COURSE	PIMA CC COURSE
<b>1st Semester</b>	
MATH 122A/B or MATH 125 Calculus I with Applications	MAT 220
CHEM 151 General Chemistry I or CHEM 105A/106A	CHM 151IN
ENGL 101 or 107 or 109H First-Year Composition	WRT 101, WRT 101A, WRT 101B, WRT 101C, WRT 107
ENGR 102A/B Introduction to Engineering or ENGR 102	ENG 102IN
Tier I General Education	AGEC-S
<b>2nd Semester</b>	
MATH 129 Calculus II	MAT 231
CHEM 152 General Chemistry II or CHEM 105B/106B or MSE 110 Solid State Chemistry or MCB 181R/L Introductory Biology I	CHM 152IN OR ENG 110IN OR BIO 181IN
ECE 175 Computer Programming for Computer Applications or CSC 110 Intro to Computer Programming I	ENG 175IN OR CIS 129
ENGL 102 or 108 or 109H First-Year Composition	WRT 102, WRT 108
PHYS 141 Introductory Mechanics or PHYS 161H	PHY 210, PHY 210IN, PHY 210LB
ECE 207 Elements of Electrical Engineering or ECE 220 Basic Circuits or AME 230 Thermodynamics or CE 214 Statics	ENG 260, ENG 282IN, ENG 232, OR ENG 210
<b>3rd Semester</b>	
MATH 223 Vector Calculus	MAT 241
PHYS 241 Introductory Electricity & Magnetism or PHYS 261H	PHY 216IN
Tier I General Education	AGEC-S
Tier I General Education	AGEC-S
SIE 250 Introduction to SIE	UA ONLY & FALL ONLY
SIE 277 Object-Oriented Modeling and Design	UA ONLY & FALL ONLY
<b>4th Semester</b>	
MATH 254 Intro to Ordinary Differential Equations	MAT 262
Tier I General Education	AGEC-S
Technical Elective	ENG 220 OR ENG 274IN
SIE 265 Engineering Management I	UA ONLY
SIE 270 Mathematical Foundations of SIE	UA ONLY & SPRING ONLY
SIE 295S SIE Sophomore Colloquium	UA ONLY & SPRING ONLY