

Course Subject and Title (courses in bold/shading are critical)		Hrs.	Upper Division	Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No	Minimum Grade if Required	Completed AGE: <input type="checkbox"/> Yes <input type="checkbox"/> No
Additional Critical Requirement Notes						
TERM ONE: 0 15 CREDIT HOURS						
+ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>				<ul style="list-style-type: none">• Complete CHM 114 or 116 or 115; MAT 265 each with a minimum grade of “C”+ ASU 101-FSE and MAE 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for petitioning replacement electives.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course*CHM 113 is a prerequisite and does not apply towards degree credit**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
CHM 114: General Chemistry for Engineers (SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II * (SQ)	4	<input type="checkbox"/>		Grade of C		
+MAE 100: Introduction to Mechanical and Aerospace Engineering (or Department Approved Elective)	2	<input type="checkbox"/>		Grade of C in MAE 100		
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• Complete MAT 266; PHY 121, 122 each with a minimum grade of “C”
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
BME 111: Engineering Perspectives on Biological Systems	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• Complete ENG 102 or 108 or 105; MAE 212; MAT 275; PHY 131, 132 with a minimum grade of “C”• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>		Grade of C		
PHY 131/132: University Physics II Electricity and Magnetism/University Physics Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
TERM FOUR: 46 60 CREDIT HOURS						
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• Complete MAE 213, 240 each with a minimum grade of “C”.
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C		
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C		
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C		
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C		
TERM FIVE: 61 75 CREDIT HOURS						
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• MAE 360 and 362 must be completed for L credit.
MAE 322: Structural Mechanics	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 360: Aerodynamics (L)	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SIX: 76 90 CREDIT HOURS						
MAE 313: Aircraft Dynamics and Control	3	<input checked="" type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• MAE 360 and 362 must be completed for L credit.
MAE 344: Fundamentals of Aerospace Design	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 362: High-Speed Aerodynamics (L)	4	<input checked="" type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
MAE 415: Vibration Analysis	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 462: Space Vehicle Dynamics and Control	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 463: Propulsion	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
TERM EIGHT: 106 120 CREDIT HOURS						
MAE 400: Engineering Profession (L)	3	<input checked="" type="checkbox"/>		Grade of C		<ul style="list-style-type: none">• See advisor for approved electives.
MAE 468: Aerospace Systems Design (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division technical elective	3	<input checked="" type="checkbox"/>		Grade of C		
General Elective	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
+ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116 or 115; MAT 265 each with a minimum grade of “C”+ ASU 101-FSE and SES 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for approved electives.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course*CHM 113 is a prerequisite and does not apply towards degree credit**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.	
CHM 114: General Chemistry for Engineers(SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>		Grade of C		
+SES 100: Introduction to Exploration (3) or MAE 100: Introduction to Mechanical Engineering, (2) OR Elective	3 or 2	<input type="checkbox"/>		Grade of C in SES 100/MAE 100		
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAT 266; PHY 121, 122;each with a minimum grade of “C”	
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete ENG 102 or 108 or 105; MAE 212; MAT 275; PHY 131/132 each with a minimum grade of “C”• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>		Grade of C		
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C		
TERM FOUR: 46 60 CREDIT HOURS						
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAE 213, 240 each with a minimum grade of “C”.	
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C		
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C		
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C		
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C		
TERM FIVE: 61 75 CREDIT HOURS						
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C		
MAE 345: Structures in a Space Environment	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C		
EEE 203: Signals & Systems I or SES 210: Engineering Systems & Experimental Design	3	<input type="checkbox"/>		Grade of C		
TERM SIX: 76 90 CREDIT HOURS						
MAE 362: High-Speed Aerodynamics (L)	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 462: Space Vehicle Dynamics and Control	3	<input checked="" type="checkbox"/>		Grade of C		
Literacy and Critical Inquiry (L)	3	<input type="checkbox"/>				
SES 311: Essentials of Astrobiology, Life in the Universe or BIO 187 or 188: General Biology I or II (4) or BIO 201: Human Anatomy and Physiology (4) or BME 111: Engineering Perspectives on Biological Systems (3)	3	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
EEE 304: Signals & Systems II	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 400: Engineering Profession (L	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 465: Rocket Propulsion	3	<input checked="" type="checkbox"/>		Grade of C		
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
MAE 480: Space Systems Design	3	<input checked="" type="checkbox"/>		Grade of C	
Aeronautics Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min cum GPA.)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

		Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete MAT 265 with a minimum grade of “C”Complete 2 of: BME 111& 112 OR BIO 188; CHM 114 or 116, each with a minimum grade of “C”; BME 100An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course* CHM 113 is a prerequisite and does not apply towards degree credit** If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
BME 100: Introduction to Bioengineering OR BME 111/112: Engineering Perspectives on Biological Systems/Laboratory or BIO 188: General Biology II (SQ)	2 or 4	<input type="checkbox"/>		Grade of C in BME 111/112	
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II *	4	<input type="checkbox"/>		Grade of C	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM TWO: 16 30 CREDIT HOURS					
BME 100: Introduction to Bioengineering OR BME 111/112: Engineering Perspectives on Biological Systems/Laboratory or BIO 188: General Biology II (SQ)	2 or 4	<input type="checkbox"/>		Grade of C in BME 111/112	<ul style="list-style-type: none">Complete ASU101-FSEComplete BME 100Complete BME 111& 112 with a minimum grade of “C” or BIO 188Complete CHM 114 or 116 with a minimum grade of “C”Complete MAT 266 with a minimum grade of “C”Complete PHY 121/122
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>			
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM THREE: 31 45 CREDIT HOURS					
BME 235: Physiology for Engineers	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete MAT 267; PHY 131, 132, each with a minimum grade of “C”Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
PHY 131/132: University Physics Electricity and Magnetism II/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C	
CHM 231/235: Elementary Organic Chemistry/Laboratory or CHM 233/237: General Organic Chemistry I/Laboratory I	3/1	<input type="checkbox"/>			
CSE 100: Principles of Programming with C++ (CS)	3	<input type="checkbox"/>			
TERM FOUR: 46 60 CREDIT HOURS					
BME 200: Conservation Principles of Bioengineering	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete BME 200, 235 each with a minimum grade of “C”
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C	
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM FIVE: 61 75 CREDIT HOURS					
# BME 318: Biomaterials	4	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# BME 350: Signals and Systems for Bioengineering	3	<input checked="" type="checkbox"/>			
# CHM 341: Elementary Physical Chemistry	3	<input checked="" type="checkbox"/>		Grade of C	
# MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>			
# IEE 380: Probability and Statistics for Engineering Problem Solving (CS)	3	<input checked="" type="checkbox"/>			
TERM SIX: 76 90 CREDIT HOURS					
# BME 300: Bioengineering Product Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# BME 331: Bioengineering Transport Phenomena	3	<input checked="" type="checkbox"/>			
# BME 370: Microcomputer Applications in Bioengineering	4	<input checked="" type="checkbox"/>			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM SEVEN: 91 105 CREDIT HOURS					
# BME 413: Biomedical Instrumentation(BME 413 & 423 = L)	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# BME 417: Biomedical Engineering Capstone Design I (L)	4	<input checked="" type="checkbox"/>		Grade of C	
# BME 423: Biomedical Instrumentation Laboratory	1	<input checked="" type="checkbox"/>			
# BME 434: Applications of Bioengineering OR # BME 416: Biomechanics OR # BME 419: Biocontrol Systems	3	<input checked="" type="checkbox"/>			
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
# BME 490: Biomedical Engineering Capstone Design II	4	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# Technical Elective	3	<input checked="" type="checkbox"/>			
# Technical Elective	2	<input checked="" type="checkbox"/>			
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input checked="" type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
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 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGE: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete BMI 101 with a minimum grade of “B-”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. @ Designates Lower Division Major Course: A minimum cumulative GPA of 3.0 required in lower division major courses	
@BMI 101: Introduction to Bioinformatics	3	<input type="checkbox"/>		Grade of B-		
CHM 113: General Chemistry I (SQ)	4	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 110, BIO 188 and BMI 102 each with a minimum grade of “B-” @ Designates Lower Division Major Course: A minimum cumulative GPA of 3.0 required in lower division major courses	
@BMI 102: Introduction to Public Health/Imaging Informatics	3	<input type="checkbox"/>		Grade of B-		
BIO 188: General Biology II (SQ)	4	<input type="checkbox"/>		Grade of B-		
CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of B-		
CPI 200: Mathematical Foundations of Informatics (MA)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
STP 226: Elements of Statistics	3	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CSE 205, BIO 187, and BMI 201 each with a minimum grade of “B-”• Complete First-Year Composition Requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105. @ Designates Lower Division Major Course: A minimum cumulative GPA of 3.0 required in lower division major courses	
BIO 187: General Biology I (SG)	4	<input type="checkbox"/>		Grade of B-		
@BMI 201: Introduction to Clinical Informatics	3	<input type="checkbox"/>		Grade of B-		
CSE 205: Object Oriented Programming and Data Structures	3	<input type="checkbox"/>		Grade of B-		
HSM 220: Health Care Organizations (H)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
BIO 340: General Genetics	4	<input checked="" type="checkbox"/>		Grade of B-	<ul style="list-style-type: none">• Complete CSE 240, BIO 340, BMI 211 and BMI 221 each with a minimum grade of “B-” @ Designates Lower Division Major Course: A minimum cumulative GPA of 3.0 required in lower division major courses	
@BMI 211: Modeling Biomedical Decisions	3	<input type="checkbox"/>		Grade of B-		
@BMI 221: Knowledge Representation for Biomedical Informatics	3	<input type="checkbox"/>		Grade of B-		
CSE 240: Introduction to Programming Languages	3	<input type="checkbox"/>		Grade of B-		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) OR Global Awareness (G)	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
#BMI 301: Clinical Environments	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Upper Division Major Course: A minimum cumulative GPA of 2.0 required in upper division major courses	
#BMI 311: Modeling Biomedical Knowledge	3	<input checked="" type="checkbox"/>		Grade of C		
#BMI 332: Team Dynamics for Healthcare IT Projects	3	<input checked="" type="checkbox"/>		Grade of C		
CSE 310: Data Structures and Algorithms	3	<input checked="" type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
#BMI 330: Topics in Translational Bioinformatics	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Upper Division Major Course: A minimum cumulative GPA of 2.0 required in upper division major courses	
#BMI 312: Modeling Biomedical Data	3	<input checked="" type="checkbox"/>		Grade of C		
CSE 360: Introduction to Software Engineering	3	<input checked="" type="checkbox"/>		Grade of C		
CSE 412: Database Management	3	<input checked="" type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) OR Global Awareness (G)	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
#BMI 461: Advanced Topics in Biomedical Informatics I	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of BMI Technical Electives # Designates Upper Division Major Course: A minimum cumulative GPA of 2.0 required in upper division major courses	
#BMI 482: Capstone I (proposed Literacy)	3	<input checked="" type="checkbox"/>		Grade of C		
BMI 484: Internship	3	<input checked="" type="checkbox"/>				
#Technical Elective	3	<input type="checkbox"/>		Grade of C		
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
#BMI 462: Advanced Topics in Biomedical Informatics II	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of BMI Technical Electives # Designates Upper Division Major Course: A minimum cumulative GPA of 2.0 required in upper division major courses	
#BMI 483: Capstone II (proposed Literacy)	3	<input checked="" type="checkbox"/>		Grade of C		
#Technical Elective	1	<input type="checkbox"/>		Grade of C		
#Technical Elective	3	<input type="checkbox"/>		Grade of C		
#Technical Elective	3	<input type="checkbox"/>		Grade of C		

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

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- General Studies Core Requirements:
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 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete MAT 265 with a min grade of “C”Complete CHM 1132.0 ASU Cumulative GPA requiredASU 101-FSE should be completed first semester.An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
#CHE 100: Introduction to Chemical Engineering	2	<input type="checkbox"/>		Grade of C		
CHM 113: General Chemistry I (SQ)	4	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete CHE 100; CHM 116; ENG 101 or 107 or 105; MAT 266 each with a minimum grade of “C”2.0 ASU Cumulative GPA required	
CHM 116: General Chemistry II (SQ)	4	<input type="checkbox"/>		Grade of C		
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University PhysicsI/ Laboratory I	3/1	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
# CHE 211: Introduction to Chemical Processing	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete CHE 211; ENG 102 or 108 each with a minimum grade of “C”Complete PHY 121 & 1222.0 ASU Cumulative GPA required <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>	
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
200 Level Engineering Elective	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
#CHE 231: Introduction to Transport I: Fluids	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete CHE 231; MAE 384; MAT 267 each a minimum grade of “C”Complete PHY 1312.0 ASU Cumulative GPA required <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
# MAE 384: Numerical Methods for Engineers (CS)	3	<input type="checkbox"/>		Grade of C		
PHY 131: University Physics II: Electricity and Magnetism	3	<input type="checkbox"/>				
Social Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# CHE 334: Introduction to Transport Phenomena II: Heat and Mass	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CHE 342: Introduction to Applied Chemical Thermodynamics	3	<input checked="" type="checkbox"/>		Grade of C		
CHM 233: General Organic Chemistry I	3	<input type="checkbox"/>				
CHM 237: General Organic Chemistry Laboratory I	1	<input type="checkbox"/>				
Bioscience Elective	3	<input type="checkbox"/>				
# Chemistry Content Technical Elective	3	<input checked="" type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
# CHE 352: Transport Laboratories (L)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CHE 433: Modern Separations	3	<input checked="" type="checkbox"/>		Grade of C		
# CHE 442: Introduction to Chemical Reactor Design	3	<input checked="" type="checkbox"/>		Grade of C		
CHM 234: General Organic Chemistry II	3	<input type="checkbox"/>				
IEE 220: Business Industrial Engineering	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# CHE 432: Principles of Chemical Engineering Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CHE 451: Chemical Engineering Laboratory	3	<input checked="" type="checkbox"/>				
# CHE 461: Process Dynamic Control	3	<input checked="" type="checkbox"/>				
# Chemistry Content Technical Elective	3	<input checked="" type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
# CHE 462: Process Design (L)	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CHE Technical Elective	3	<input checked="" type="checkbox"/>				
# CHE Technical Elective	3	<input checked="" type="checkbox"/>				
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
#Natural Science or MSE Technical Elective	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes			
TERM ONE: 0 15 CREDIT HOURS								
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116; MAT 265 with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course *CHM 113 is a prerequisite and does not apply toward degree credit. **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.			
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100				
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>						
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM TWO: 16 30 CREDIT HOURS								
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100	<ul style="list-style-type: none">• Complete CEE 100; MAT 242, 266; PHY 121 & 122 each with a minimum grade of “C”			
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>		Grade of C				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C				
PHY 121/122: University PhysicsI/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM THREE: 31 45 CREDIT HOURS								
CEE 210: Engineering Mechanics: Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CEE 210; MAT 267, 275, PHY 131 & 132 each with a minimum grade of “C”• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105			
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C				
PHY 131/132: University Physics II: Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C				
TERM FOUR: 46 60 CREDIT HOURS								
CEE 212: Engineering Mechanics: Dynamics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CEE 212, CEE 213 each with a minimum grade of “C”			
CEE 213: Introduction to Deformable Solids	3	<input type="checkbox"/>		Grade of C				
EEE 202: Circuits I OR MAE 240: Thermofluids I	4	<input type="checkbox"/>						
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G):	3	<input type="checkbox"/>						
Basic Science Elective:	3	<input type="checkbox"/>						
TERM FIVE: 61 75 CREDIT HOURS								
#CEE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
Select 3 # CEE 300: Engineering Business Practice (L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	10-12	<input checked="" type="checkbox"/>		Grade of C in each				
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>						
TERM SIX: 76 90 CREDIT HOURS								
Select remaining 4 # CEE 300: Engineering Business Practice(L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	14 - 16	<input checked="" type="checkbox"/>		Grade of C in each				
TERM SEVEN: 91 105 CREDIT HOURS								
#CEE 400 Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input type="checkbox"/>		Grade of C in CEE 400	<ul style="list-style-type: none">• Technical Elective and Design Elective requirements: Complete a total of 2 design electives and 4 technical electives during Term 7 and Term 8. See Advisor for guidance in selection.# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
# Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C				
# Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C				
# Design Elective or # Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C				
# Design Elective or # Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C				

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
# CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G) if CEE 400 completed	3	<input type="checkbox"/>		Grade of C in CEE 400	<ul style="list-style-type: none"> Technical Elective and Design Elective requirements: Complete a total of 2 design electives and 4 technical electives during Term 7 and Term 8. See Advisor for guidance in selection. # Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CEE 486: Integrated Civil Engineering Design (L)	4	<input checked="" type="checkbox"/>		Grade of C	
# Technical Elective or # Design Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# Technical Elective or # Design Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX))	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes			
TERM ONE: 0 15 CREDIT HOURS								
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete CHM 114 or 116; MAT 265 with a minimum grade of “C”ASU 101-FSE should be completed first semester.An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course *CHM 113 is a prerequisite and does not apply toward degree credit. **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.			
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100				
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>						
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM TWO: 16 30 CREDIT HOURS								
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100	<ul style="list-style-type: none">Complete CEE 100; MAT 242, 266; PHY 121 & 122 each with a minimum grade of “C”			
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>		Grade of C				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C				
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM THREE: 31 45 CREDIT HOURS								
CEE 210: Engineering Mechanics: Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete CEE 210; MAT 267, 275, PHY 131 & 132 each with a minimum grade of “C”Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105			
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C				
PHY 131/132: University Physics II: Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C				
TERM FOUR: 46 60 CREDIT HOURS								
CEE 212: Engineering Mechanics: Dynamics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete CEE 212, CEE 213 each with a minimum grade of “C”			
CEE 213: Introduction to Deformable Solids	3	<input type="checkbox"/>		Grade of C				
EEE 202: Circuits I	4	<input type="checkbox"/>						
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB), AND Cultural Diversity in the US (C) or Global Awareness (G):	3	<input type="checkbox"/>						
Basic Science Elective:	3	<input type="checkbox"/>						
TERM FIVE: 61 75 CREDIT HOURS								
# CEE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
Select 3 # CEE 300: Engineering Business Practice (L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	10-12	<input checked="" type="checkbox"/>		Grade of C in each				
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>						
TERM SIX: 76 90 CREDIT HOURS								
Select remaining 4 # CEE 300: Engineering Business Practice(L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	14-16	<input checked="" type="checkbox"/>		Grade of C in each			# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
TERM SEVEN: 91 105 CREDIT HOURS								
Select 4 # CEE 281: Surveying (3 hrs) # CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs) # CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs) # CEE 452: Foundation (3 hrs) # CEE 481: Civil Engineering Project (3 hrs) # Approved technical elective (3 hrs)	12	<input checked="" type="checkbox"/>		Grade of C in each	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
#CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input checked="" type="checkbox"/>		Grade of C in CEE 400				

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
Select remaining 2 # CEE 281: Surveying (3 hrs) # CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs) # CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs) # CEE 452: Foundation (3 hrs) # CEE 481: Civil Engineering Project (3 hrs) # Approved technical elective (3 hrs)	6	<input checked="" type="checkbox"/>		Grade of C in each	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
#CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G) if CEE 400 completed	3	<input type="checkbox"/>		Grade of C in CEE 400	
# CEE 486: Integrated Civil Engineering Design (L)	4	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX))	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

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- General Studies Core Requirements:
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 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes			
TERM ONE: 0 15 CREDIT HOURS								
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116; MAT 265 with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course *CHM 113 is a prerequisite and does not apply toward degree credit. **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.			
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100				
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>						
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM TWO: 16 30 CREDIT HOURS								
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100	<ul style="list-style-type: none">• Complete CEE 100; MAT 242, 266; PHY 121 & 122 each with a minimum grade of “C”			
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>		Grade of C				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C				
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C				
TERM THREE: 31 45 CREDIT HOURS								
CEE 210: Engineering Mechanics: Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CEE 210; MAT 267, 275, PHY 131 & 132 each with a minimum grade of “C”• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105			
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C				
PHY 131/132: University Physics II: Electricity and Magnetism/ Laboratory II	3/1	<input type="checkbox"/>		Grade of C				
TERM FOUR: 46 60 CREDIT HOURS								
CEE 212: Engineering Mechanics: Dynamics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CEE 212, CEE 213 with a minimum grade of “C”			
CEE 213: Introduction to Deformable Solids	3	<input type="checkbox"/>		Grade of C				
MAE 240: Thermofluids I	4	<input type="checkbox"/>						
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB), AND Cultural Diversity in the US (C) or Global Awareness (G):	3	<input type="checkbox"/>						
Basic Science Elective	3	<input type="checkbox"/>						
TERM FIVE: 61 75 CREDIT HOURS								
# CEE 384: Numerical Methods for Engineers (CS) Select 3 # CEE 300: Engineering Business Practice (L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	3 10 - 12	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		Grade of C Grade of C in each	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>						
TERM SIX: 76 90 CREDIT HOURS								
Select remaining 4 # CEE 300: Engineering Business Practice(L) (3 hrs) # CEE 321: Structural Analysis and Design (4 hrs) # CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs) # CEE 361: Introduction to Environmental Engineering (4 hrs) # CEE 372: Transportation Engineering (4 hrs)	 14 - 16	 <input checked="" type="checkbox"/>		Grade of C in each			# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
TERM SEVEN: 91 105 CREDIT HOURS								
Select 4 Design/Technical Electives # CEE 440: Engineering Hydrology (3 hrs) # CEE 441: Water Resource Hydrology (3 hrs) # CEE 462: Unit Ops in Environmental Engineering (3 hrs) # CEE 466: San System Design (3 hrs) # CEE 467: Environmental Microbiology (3 hrs) # Approved Technical Elective (3 hrs)	 12	 <input checked="" type="checkbox"/>		Grade of C in each	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.			
# CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input checked="" type="checkbox"/>		Grade of C in CEE 400				

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
Select remaining 2 Design/Technical Electives # CEE 440: Engineering Hydrology (3 hrs) # CEE 441: Water Resource Hydrology (3 hrs) # CEE 462: Unit Ops in Environmental Engineering (3 hrs) # CEE 466: San System Design (3 hrs) # CEE 467: Environmental Microbiology (3 hrs) # Approved Technical Elective (3 hrs)	6	<input checked="" type="checkbox"/>		Grade of C in each	# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G) if CEE 400 completed	3	<input type="checkbox"/>		Grade of C in CEE 400	
# CEE 486: Integrated Civil Engineering Design (L)	4	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX))	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGE: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CSE 100 or 110; MAT 265 each with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 100: Principles of Programming with C++ (CS) OR # CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of C		
#CSE 101: Introduction to Computer Science & Engineering	2	<input type="checkbox"/>		Grade of C		
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
# CSE 120: Digital Design Fundamentals	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 120, 205; MAT 266 each with a minimum grade of “C” # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 205:Object-Oriented Programming & Data Structures (CS)	3	<input type="checkbox"/>		Grade of C		
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
BIO 187: General Biology I (SQ) or BIO 188: General Biology II (SQ)	4	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CSE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 230; MAT 243, 267 each with a minimum grade of “C”• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105• See Advisor for approved Laboratory Science sequence courses # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
MAT 243: Discrete Mathematical Structures	3	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
Laboratory Science I (SQ)	4	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
#CSE 240: Introduction to Programming Languages	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 240 with a minimum grade of “C”• See Advisor for approved Laboratory Science sequence courses• General Elective: cannot include CSE, MAT, PHY, BIO, CHM or other Science course # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>				
Laboratory Science II (SQ)	4	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
General Elective	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 301: Computing Ethics	1	<input checked="" type="checkbox"/>		Grade of C		
# CSE 310: Data Structures and Algorithms	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 360: Introduction to Software Engineering	3	<input checked="" type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
# CSE 340: Principles of Programming Languages	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 355: Introduction to Theoretical Computer Science	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Computer Science Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# CSE 430: Operating Systems	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of Computer Science Electives• General Elective: cannot include CSE, MAT, PHY, BIO, CHM or other Science course # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 485: Computer Science Capstone Project I (L)	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C		
General Elective	2	<input type="checkbox"/>				

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
# CSE 486: Computer Science Capstone Project II (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> See Advisor for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# Computer Science Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGECE: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CSE 100 or 110, 101; MAT 265 each with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 100: Principles of Programming with C++ (CS) OR # CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of C		
# CSE 101: Introduction to Computer Science & Engineering	2	<input type="checkbox"/>		Grade of C		
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
# CSE 120: Digital Design Fundamentals	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 120, 205; MAT 266 each with a minimum grade of “C”• Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 205:Object-Oriented Programming & Data Structures (CS)	3	<input type="checkbox"/>		Grade of C		
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
BIO 187: General Biology I (SQ) OR BIO 188: General Biology Laboratory II (SQ)	4	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CSE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 230; MAT 243, 267 each with a minimum grade of “C”• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
MAT 243: Discrete Mathematical Structures	3	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
# CSE 220: Programming for Computer Engineering	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CSE 220 with a minimum grade of “C”• Designates Major Course: A minimum cumulative GPA of 2.0 required.	
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>				
PHY 131/132: University Physics II Electricity and Magnetism/Laboratory II (SQ)	3/1	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# EEE 202: Circuits I	4	<input type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>				
# CSE 301: Computing Ethics	1	<input checked="" type="checkbox"/>		Grade of C		
# CSE 310: Data Structures and Algorithms	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 360: Introduction to Software Engineering	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SIX: 76 90 CREDIT HOURS						
# EEE 334: Circuits II	4	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 320: Design and Synthesis of Digital Hardware	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 325: Embedded Micro Systems	3	<input checked="" type="checkbox"/>		Grade of C		
# MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# CSE 423: Systems Capstone Project I (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of CSE Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 430: Operating Systems	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
# CSE 420: Computer Architecture I	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• See Advisor for approved list of CSE Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# CSE 424: Systems Capstone Project II (L)	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE 434: Computer Networks	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
# ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CIM 105 with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CIM 105: Intro to Concrete Industry	2	<input type="checkbox"/>		Grade of C		
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 111/113: General Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
# CON 101: Construction and Culture: A Built Environment (HU, G, H)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
# CIM 106: Concrete Fundamentals	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CIM 106 with a minimum grade of “C”; STP 226 # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 243: Heavy Construction Equipment, Methods, Materials	3	<input type="checkbox"/>				
# CON 244: Working Drawing Analysis	1	<input type="checkbox"/>				
# CON 252: Building Construction Methods, Materials, Equipment	3	<input type="checkbox"/>				
STP 226: Elements of Statistics (CS)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CIM 205: Concrete Construction Methods	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CIM 205; ENG 102 or 105 or 108 with a minimum grade of “C”; COM 225; CON 221, ECN 211• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 221 Applied Statics	3	<input type="checkbox"/>				
# CON 251: Microcomputer Applications for Construction	3	<input type="checkbox"/>				
COM 225: Public Speaking (L)	3	<input type="checkbox"/>				
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
# CIM 206: Application of Concrete in Construction	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CIM 206 with a minimum grade of “C”; CON 271; ECN 212 # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 223: Strength of Materials	3	<input type="checkbox"/>				
# CON 271: Construction Safety	3	<input type="checkbox"/>				
ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C)	3	<input type="checkbox"/>				
TERM SUMMER 2 nd Year: 1 CREDIT HOUR						
# CON 296: Field Internship	1	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# CIM 305: Management of Concrete Products: Ordering and Delivering	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 383: Construction Estimating	4	<input checked="" type="checkbox"/>		Grade of C		
# CON 241: Surveying	3	<input type="checkbox"/>				
Upper division Humanities, Fine Arts & Design (HU) or Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Natural Science: Quantitative (SQ) or General (SG)	4	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
# CIM 306: Management of Concrete Products: Production Facilities	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 389: Construction Cost Accounting and Control (CS)	3	<input checked="" type="checkbox"/>		Grade of C		
# CON 450: Geotechnical Applications for Construction	3	<input checked="" type="checkbox"/>		Grade of C		
LES 305: Legal, Ethical, Regulatory Issues in Business	3	<input checked="" type="checkbox"/>				
TERM SUMMER 3 rd Year: 1 CREDIT HOUR						
# CON 484: Internship	1	<input checked="" type="checkbox"/>		Grade of C		
TERM SEVEN: 91 105 CREDIT HOURS						
# CIM 405: Concrete Problems: Diagnosis, Prevention, Dispute	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
Upper division CIM Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# CON 453: Construction Project Management I	4	<input checked="" type="checkbox"/>		Grade of C		
# CON 495: Construction Planning and Scheduling	3	<input checked="" type="checkbox"/>		Grade of C		
TERM EIGHT: 106 120 CREDIT HOURS						
# CIM 406: Concrete Industry Management	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 424: Structural Design	3	<input checked="" type="checkbox"/>		Grade of C		
# CON 455: Construction Project Management II	3	<input checked="" type="checkbox"/>		Grade of C		
# CON 496: Construction Contract Administration (L)	3	<input checked="" type="checkbox"/>		Grade of C		

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
# ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265; PHY 111, 113 each with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 111/113: General Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
# CON 101: Construction & Culture: A Built Environment (HU, G, H)	3	<input type="checkbox"/>				
# CON 100: Introduction to Construction	2	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
# CON 243: Heavy Construction Equipment, Methods, Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 243 with a minimum grade of “C”• Complete CON 244, 252# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 244 : Working Drawing Analysis	1	<input type="checkbox"/>				
# CON 252: Building Construction Methods, Materials, Equipment	3	<input type="checkbox"/>				
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CON 221: Applied Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 221, ENG 102 or 108 or 105 each with a minimum grade of “C”• Complete COM 225; CON 251; ECN 212; STP 226.• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 251: Microcomputer Applications for Construction	3	<input type="checkbox"/>				
COM 225: Public Speaking (L)	3	<input type="checkbox"/>				
ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>				
STP 226: Elements of Statistics (CS)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
# CON 223: Strength of Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 223 with a minimum grade of “C”; CON 100, CON 271# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 271: Construction Safety	3	<input type="checkbox"/>				
# CON 241: Surveying	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C)	3	<input type="checkbox"/>				
Science Quantitative (SQ) or Science General (SG)	4	<input type="checkbox"/>				
TERM SUMMER 2 nd Year: 1 CREDIT HOUR						
# CON 296: Field Internship	1	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# CON 310: Testing and Materials for Construction	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 345: Mechanical Systems	4	<input checked="" type="checkbox"/>		Grade of C		
# CON 273: Electrical Construction Fundamental and Project Management	3	<input type="checkbox"/>				
# CON 383: Construction Estimating	4	<input checked="" type="checkbox"/>		Grade of C		
Select 1 # CON 472: Development Feasibility Reports (3 hrs) # CON 483: Advanced Building Estimating (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division Elective	3	<input checked="" type="checkbox"/>		Grade of C in CON courses		
TERM SIX: 76 90 CREDIT HOURS						
# CON 389: Construction Cost Accounting and Control (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
LES 305: Legal, Ethical, Regulatory Issues in Business	3	<input checked="" type="checkbox"/>				
Upper division Humanities, Fine Arts & Design (HU) or Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Upper division Elective	3	<input checked="" type="checkbox"/>				
Select 1 additional course from: # CON 472: Development Feasibility Reports (3 hrs) # CON 483: Advanced Building Estimating (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division Elective: (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON courses		
TERM SUMMER 3 rd Year: 1 CREDIT HOUR						
# CON 484: Internship	1	<input checked="" type="checkbox"/>		Grade of C		

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM SEVEN: 91 105 CREDIT HOURS					
# CON 450: Geotechnical Applications for Construction	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.
# CON 453: Construction Project Management I	4	<input checked="" type="checkbox"/>		Grade of C	
# CON 495: Construction Planning and Scheduling (L)	3	<input checked="" type="checkbox"/>		Grade of C	
Select 1 additional course from: # CON 472: Development Feasibility Reports (3 hrs) # CON 483: Advanced Building Estimating (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division Elective (3 hrs)					
	3	<input checked="" type="checkbox"/>		Grade of C in CON courses	
TERM EIGHT: 106 120 CREDIT HOURS					
# CON 424: Structural Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.
# CON 455: Construction Project Management II	3	<input checked="" type="checkbox"/>		Grade of C	
# CON 496: Construction Contract Administration (L)	3	<input checked="" type="checkbox"/>		Grade of C	
Select remaining course from: # CON 472: Development Feasibility Reports (3 hrs) # CON 483: Advanced Building Estimating (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) UD Elective (3 hrs)					
	3	<input checked="" type="checkbox"/>		Grade of C in CON courses	

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

Major Map: Construction (Heavy Construction) – Bachelor of Science (B.S.)

Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
# ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265; PHY 111, 113 each with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.• # Designates Major Course: A minimum cumulative gpa of 2.0 required.
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C	
PHY 111/113: General Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C	
# CON 101: Construction and Culture: A Built Environment (HU, G, H)	3	<input type="checkbox"/>			
# CON 100: Introduction to Construction	2	<input type="checkbox"/>			
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM TWO: 16 30 CREDIT HOURS					
# CON 243: Heavy Construction Equipment, Methods, Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 243 with a minimum grade of “C”• Complete CON 244, 252• # Designates Major Course: A minimum cumulative gpa of 2.0 required.
# CON 244: Working Drawing Analysis	1	<input type="checkbox"/>			
# CON 252: Building Construction Methods, Materials, Equipment	3	<input type="checkbox"/>			
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>			
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM THREE: 31 45 CREDIT HOURS					
# CON 221: Applied Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 221, ENG 102 or 108 or 105 each with a minimum grade of “C”• Complete COM 225; CON 251; ECN 212; STP 226.• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105• # Designates Major Course: A minimum cumulative gpa of 2.0 required.
# CON 251: Microcomputer Applications for Construction	3	<input type="checkbox"/>			
COM 225: Public Speaking (L)	3	<input type="checkbox"/>			
ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>			
STP 226: Elements of Statistics (CS)	3	<input type="checkbox"/>			
TERM FOUR: 46 60 CREDIT HOURS					
# CON 223: Strength of Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 223 with a minimum grade of “C”; CON 100, CON 271• # Designates Major Course: A minimum cumulative gpa of 2.0 required.
# CON 271: Construction Safety	3	<input type="checkbox"/>			
# CON 241: Surveying	3	<input type="checkbox"/>			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C)	3	<input type="checkbox"/>			
Science: Quantitative (SQ) or Science General (SG)	4	<input type="checkbox"/>			
TERM SUMMER 2 nd Year: 1 CREDIT HOUR					
# CON 296: Field Internship	1	<input type="checkbox"/>			
TERM FIVE: 61 75 CREDIT HOURS					
# CON 310: Testing and Materials for Construction	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.
# CON 345: Mechanical Systems	4	<input checked="" type="checkbox"/>		Grade of C	
# CON 273: Electrical Construction Fundamental and Project Management	3	<input type="checkbox"/>			
# CON 383: Construction Estimating	4	<input checked="" type="checkbox"/>		Grade of C	
Select 1: # CON 394: Special Topics: Advanced Heavy Equipment Operations (3 hrs) # CON 394: Special Topics: Environmental Aspects of Heavy Construction (3 hrs) # CON 486: Heavy Construction Estimating (3 hrs) # CON 494: Special Topics: Heavy Construction Earthworks (3 hrs) # CON 494: Special Topics: Heavy Construction Project Management (3 hrs):	3	<input checked="" type="checkbox"/>		Grade of C	
TERM SIX: 76 90 CREDIT HOURS					
# CON 389: Construction Cost Accounting and Control (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.
LES 305: Legal, Ethical, Regulatory Issues in Business	3	<input checked="" type="checkbox"/>			
Upper division Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>		Grade of C	
Select 2 additional: # CON 394: Special Topics: Advanced Heavy Equipment Operations (3 hrs) # CON 394: Special Topics: Environmental Aspects of Heavy Construction (3 hrs) # CON 486: Heavy Construction Estimating (3 hrs) # CON 494: Special Topics: Heavy Construction Earthworks (3 hrs) # CON 494: Special Topics: Heavy Construction Project Management (3 hrs):	3	<input checked="" type="checkbox"/>		Grade of C	
	3	<input checked="" type="checkbox"/>		Grade of C	

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM SUMMER 3rd Year: 1 CREDIT HOUR					
# CON 484: Internship	1	<input checked="" type="checkbox"/>		Grade of C	
TERM SEVEN: 91 105 CREDIT HOURS					
# CON 450: Geotechnical Applications for Construction	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 453: Construction Project Management I	4	<input checked="" type="checkbox"/>		Grade of C	
# CON 495: Construction Planning and Scheduling	3	<input checked="" type="checkbox"/>		Grade of C	
Select 1 additional: # CON 394: Special Topics: Advanced Heavy Equipment Operations (3 hrs) # CON 394: Special Topics: Environmental Aspects of Heavy Construction (3 hrs) # CON 486: Heavy Construction Estimating (3 hrs) # CON 494: Special Topics: Heavy Construction Earthworks (3 hrs) # CON 494: Special Topics: Heavy Construction Project Management (3 hrs):	3	<input checked="" type="checkbox"/>		Grade of C	
TERM EIGHT: 106 120 CREDIT HOURS					
# CON 424: Structural Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 455: Construction Project Management II	3	<input checked="" type="checkbox"/>		Grade of C	
# CON 496: Construction Contract Administration (L)	3	<input checked="" type="checkbox"/>		Grade of C	
Select remaining course: # CON 394: Special Topics: Advanced Heavy Equipment Operations (3 hrs) # CON 394: Special Topics: Environmental Aspects of Heavy Construction (3 hrs) # CON 486: Heavy Construction Estimating (3 hrs) # CON 494: Special Topics: Heavy Construction Earthworks (3 hrs) # CON 494: Special Topics: Heavy Construction Project Management (3 hrs):	3	<input checked="" type="checkbox"/>		Grade of C	

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

Major Map: Construction (Residential Construction) – Bachelor of Science (B.S.)

Ira A. Fulton School of Engineering, Tempe Campus

Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
# ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265; PHY 111, 113 with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.• # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 111/113: General Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
# CON 101: Construction & Culture: A Built Environment (HU, G, H)	3	<input type="checkbox"/>				
# CON 100: Introduction to Construction	2	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
# CON 243: Heavy Construction Equipment, Methods, Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 243 with a minimum grade of “C”• Complete CON 244, 252• # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 244: Working drawing Analysis	1	<input type="checkbox"/>				
# CON 252: Building Construction Methods, Materials, Equipment	3	<input type="checkbox"/>				
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CON 221: Applied Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 221, ENG 102 or 108 or 105 each with a minimum grade of “C”• Complete COM 225; CON 251; ECN 212; STP 226.• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105• # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 251: Microcomputer Applications for Construction	3	<input type="checkbox"/>				
COM 225: Public Speaking (L)	3	<input type="checkbox"/>				
ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>				
STP 226: Elements of Statistics (CS)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
# CON 223: Strength of Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 223 with a minimum grade of “C”; CON 100; CON 271• # Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 271: Construction Safety	3	<input type="checkbox"/>				
# CON 241: Surveying	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C)	3	<input type="checkbox"/>				
Science Quantitative (SQ) or Science General (SG)	4	<input type="checkbox"/>				
TERM SUMMER 2nd Year: 1 CREDIT HOUR						
# CON 296: Field Internship	1	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# CON 310: Testing and Materials for Construction	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 345: Mechanical Systems	4	<input checked="" type="checkbox"/>		Grade of C		
# CON 273: Electrical Construction Fundamental and Project Management	3	<input type="checkbox"/>				
# CON 383: Construction Estimating	4	<input checked="" type="checkbox"/>		Grade of C		
Select 1 # CON 377: Residential Construction Production Procedures (3 hrs) # CON 477: Residential Construction Business Practices (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON courses		
TERM SIX: 76 90 CREDIT HOURS						
# CON 389: Construction Cost Accounting and Control (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
LES 305: Legal, Ethical, Regulatory Issues in Business	3	<input checked="" type="checkbox"/>				
Select 1 additional course from: # CON 377: Residential Construction Production Procedures (3 hrs) # CON 477: Residential Construction Business Practices (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON courses		
Upper division Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Upper division Elective	3	<input checked="" type="checkbox"/>				
TERM SUMMER 3rd Year: 1 CREDIT HOUR						
# CON 484: Internship	1	<input checked="" type="checkbox"/>		Grade of C		

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM SEVEN: 91 105 CREDIT HOURS					
# CON 450: Geotechnical Applications for Construction	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 453: Construction Project Management I	4	<input checked="" type="checkbox"/>		Grade of C	
# CON 495: Construction Planning and Scheduling	3	<input checked="" type="checkbox"/>		Grade of C	
Select 1 additional course from: # CON 377: Residential Construction Production Procedures (3 hrs) # CON 477: Residential Construction Business Practices (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON courses	
TERM EIGHT: 106 120 CREDIT HOURS					
# CON 424: Structural Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 455: Construction Project Management II	3	<input checked="" type="checkbox"/>		Grade of C	
# CON 496: Construction Contract Administration (L)	3	<input checked="" type="checkbox"/>		Grade of C	
Select remaining course from: # CON 377: Residential Construction Production Procedures (3 hrs) # CON 477: Residential Construction Business Practices (3 hrs) REA 380: Real Estate Fundamentals (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON courses	

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
# ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265; PHY 111, 113 each with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 111/113: General Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
# CON 101: Construction and Culture: A Built Environment (HU, G, H)	3	<input type="checkbox"/>				
# CON 100: Introduction to Construction	2	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
# CON 243: Heavy Construction Equipment, Methods, Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 243 with a aminimum grade of “C”• Complete CON 244, 252# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 244: Working Drawing Analysis	1	<input type="checkbox"/>				
# CON 252: Building Construction Methods, Materials, Equipment	3	<input type="checkbox"/>				
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# CON 221: Applied Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 221, ENG 102 or 108 or 105 each with a minimum grade of “C”• Complete COM 225; CON 251; ECN 212; STP 226.• Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 251: Microcomputer Applications for Construction	3	<input type="checkbox"/>				
COM 225: Public Speaking (L)	3	<input type="checkbox"/>				
ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>				
STP 226: Elements of Statistics (CS)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
# CON 223: Strength of Materials	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete CON 223 with a minimum grade of “C”; CON 100, CON 271.# Designates Major Course: A minimum cumulative gpa of 2.0 required.	
# CON 271: Construction Safety	3	<input type="checkbox"/>				
# CON 241: Surveying	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C)	3	<input type="checkbox"/>				
Science Quantitative (SQ) or Science General (SG)	4	<input type="checkbox"/>				
TERM SUMMER 2nd Year: 1 CREDIT HOUR						
# CON 296: Field Internship	1	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# CON 310: Testing and Materials for Construction	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
# CON 345: Mechanical Systems	4	<input checked="" type="checkbox"/>		Grade of C		
# CON 273: Electrical Construction Fundamental and Project Management	3	<input type="checkbox"/>				
# CON 383: Construction Estimating	4	<input checked="" type="checkbox"/>		Grade of C		
Select 1 # CON 468: Mechanical and Electrical Estimating (3 hrs) # CON 471: Mechanical and Electrical Project (3 hrs) # CON 494: Special Topics: Cleanroom Construction (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON Courses		
TERM SIX: 76 90 CREDIT HOURS						
# CON 389: Construction Cost Accounting and Control (CS)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two “D” grades are allowed in all 3XX and 4XX courses combined.	
LES 305: Legal, Ethical, Regulatory Issues in Business	3	<input type="checkbox"/>				
Select 1 additional course from: # CON 468: Mechanical and Electrical Estimating (3 hrs) # CON 471: Mechanical and Electrical Project (3 hrs) # CON 494: Special Topics: Cleanroom Construction (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON Courses		
Upper division Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Upper division elective	3	<input checked="" type="checkbox"/>				
TERM SUMMER 3rd Year: 1 CREDIT HOUR						
# CON 484: Internship	1	<input checked="" type="checkbox"/>		Grade of C		

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM SEVEN: 91 105 CREDIT HOURS					
# CON 450: Geotechnical Applications for Construction	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 453: Construction Project Management I	4	<input checked="" type="checkbox"/>		Grade of C	
# CON 495: Construction Planning and Scheduling	3	<input checked="" type="checkbox"/>		Grade of C	
Select 1 additional course from: # CON 468: Mechanical and Electrical Estimating (3 hrs) # CON 471: Mechanical and Electrical Project (3 hrs) # CON 494: Special Topics: Cleanroom Construction (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON Courses	
TERM EIGHT: 106 120 CREDIT HOURS					
# CON 424: Structural Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative gpa of 2.0 required. Note: maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
# CON 455: Construction Project Management II	3	<input checked="" type="checkbox"/>		Grade of C	
# CON 496: Construction Contract Administration	3	<input checked="" type="checkbox"/>		Grade of C	
Select remaining course from: # CON 468: Mechanical and Electrical Estimating (3 hrs) # CON 471: Mechanical and Electrical Project (3 hrs) # CON 494: Special Topics: Cleanroom Construction (3 hrs) Upper division elective (3 hrs)	3	<input checked="" type="checkbox"/>		Grade of C in CON Courses	

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGECE: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete MAT 265 with a minimum grade of “C”.ASU 101-FSE should be completed first semester.An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course * CHM 113 is a prerequisite and does not apply towards degree credit **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II * (SQ)	4	<input type="checkbox"/>				
# CSE 100: Principles of Programming with C++ (CS) OR # EEE 120: Digital Design Fundamentals	3	<input type="checkbox"/>				
# EEE 101: Introduction to Engineering Design OR BME 111: Engineering Perspectives on Biological Systems	2 or 3	<input type="checkbox"/>				
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition **	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
# CSE 100: Principles of Programming with C++ (CS) OR # EEE 120: Digital Design Fundamentals	3	<input type="checkbox"/>			<ul style="list-style-type: none">Complete EEE 101Complete MAT 266; PHY 121 & 122 each with a minimum grade of “C” # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# EEE 101: Introduction to Engineering Design OR BME 111: Engineering Perspectives on Biological Systems	2 or 3	<input type="checkbox"/>				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition **	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
# EEE 202: Circuits I	4	<input type="checkbox"/>			<ul style="list-style-type: none">Complete EEE 202; MAT 267, 274 or 275 and PHY 131, 132 with a minimum grade of “C”Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
MAT 274: Elementary Differential Equations (MA) OR MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C		
TERM FOUR: 46 60 CREDIT HOURS						
# EEE 203: Signals and Systems I	3	<input type="checkbox"/>			<ul style="list-style-type: none">Complete EEE 203 and EEE 241 # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# EEE 241: Fundamentals of Electromagnetics	3	<input type="checkbox"/>				
MAT 342: Linear Algebra (MA) OR MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C		
PHY 241: University Physics III	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# EEE 334: Circuits II	4	<input checked="" type="checkbox"/>			<ul style="list-style-type: none">Area Pathway Courses: (choose 4) EEE 304, 333, 335, 341, 352, 360. Area Pathway courses are prerequisites for Technical Electives. See Advisor for guidance in selection. # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# EEE 350: Random Signal Analysis	3	<input checked="" type="checkbox"/>				
# EEE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>				
# Area Pathway Course	4	<input checked="" type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
ECN 211/212 (SB): Macroeconomic Principles/Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	3	<input type="checkbox"/>			<ul style="list-style-type: none">Area Pathway Courses: (choose 4) EEE 304, 333, 335, 341, 352, 360. Area Pathway courses are prerequisites for Technical Electives. See Advisor for guidance in selection. # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# Area Pathway Course	4	<input checked="" type="checkbox"/>				
# Area Pathway Course	4	<input checked="" type="checkbox"/>				
# Area Pathway Course	4	<input checked="" type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# EEE 488: Senior Design Laboratory I (L)	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none">See Degree Audit Reporting System (DARS) for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
# Technical Elective	3	<input checked="" type="checkbox"/>				
# Technical Elective	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
# EEE 489: Senior Design Laboratory II (L)	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none">See Degree Audit Reporting System (DARS) for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# Technical Elective	3	<input checked="" type="checkbox"/>				
# Technical Elective	3	<input checked="" type="checkbox"/>				
#Technical Elective	3	<input checked="" type="checkbox"/>				
UD Humanities, Fine Arts & Design (HU) OR Social Behavioral & Science (SB)	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

**Major Map: Electrical Engineering
(Electric Power and Energy Systems) –
Bachelor of Science in Engineering (B.S.E.)**
Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265 with a minimum grade of “C”• ASU 101-FSE should be completed first semester.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course <p>* CHM 113 is a prerequisite and does not apply towards degree credit</p> <p>**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.</p> <p># Designates Major course: A minimum cumulative GPA of 2.0 required.</p>
CHM 114: General Chemistry for Engineers OR CHM 116: General Chemistry II *	4	<input type="checkbox"/>			
# CSE 100: Principles of Programming with C++ (CS) OR # EEE 120: Digital Design Fundamentals	3	<input type="checkbox"/>			
# EEE 101: Introduction to Engineering Design OR BME 111: Engineering Perspectives on Biological Systems	2 or 3	<input type="checkbox"/>			
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM TWO: 16 30 CREDIT HOURS					
# CSE 100: Principles of Programming with C++ (CS) OR # EEE 120: Digital Design Fundamentals	3	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete EEE 101• Complete MAT 266; PHY 121 & 122 each with a minimum grade of “C” <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>
# EEE 101: Introduction to Engineering Design OR BME 111: Engineering Perspectives on Biological Systems	2 or 3				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM THREE: 31 45 CREDIT HOURS					
# EEE 202: Circuits I	4	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete EEE 202; MAT 267, 274 or 275 and PHY 131, 132 with a minimum grade of “C”• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
MAT 274: Elementary Differential Equations (MA) OR MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C	
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C	
TERM FOUR: 46 60 CREDIT HOURS					
# EEE 203: Signals and Systems I	3	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete EEE 203 and EEE 241 <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>
# EEE 241: Fundamentals of Electromagnetics	3	<input type="checkbox"/>			
MAT 342: Linear Algebra OR MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C	
PHY 241: University Physics III	3	<input type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM FIVE: 61 75 CREDIT HOURS					
# EEE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# EEE 334: Circuits II	4	<input checked="" type="checkbox"/>			
# EEE 350: Random Signal Analysis	3	<input checked="" type="checkbox"/>			
# EEE 360: Energy Systems and Power Electronics	4	<input checked="" type="checkbox"/>			
TERM SIX: 76 90 CREDIT HOURS					
ECN 211/212 (SB): Macroeconomic Principles/Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	3	<input type="checkbox"/>			<ul style="list-style-type: none">• Area Pathway Courses: (choose 3) EEE 304, 333, 335, 341, 352. Area Pathway courses are prerequisites for Technical Electives. See Advisor for guidance in selection. <p># Designates Major Course: A minimum cumulative GPA of 2.0 required.</p>
# Area Pathway Course	4	<input checked="" type="checkbox"/>			
# Area Pathway Course	4	<input checked="" type="checkbox"/>			
# Area Pathway Course	4	<input checked="" type="checkbox"/>			
TERM SEVEN: 91 105 CREDIT HOURS					
# EEE 488: Senior Design Laboratory I (L)	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
Select 2					
# EEE 460: Nuclear Concepts for the 21 st Century (3 hrs)					
# EEE 463: Electrical Power Plant (3 hrs)					
# EEE 470: Electric Power Devices (3 hrs)					
# EEE 471: Power System Analysis (3 hrs)					
# EEE 473: Electrical Machinery (3 hrs)					
# EEE 498: Pro-Seminar (Power Elec.) (3 hrs)					
# EEE 498: Pro-Seminar (Solar Energy) (3 hrs)	6	<input checked="" type="checkbox"/>			
GCU 364: Energy in the Global Arena (SB, G)	3	<input checked="" type="checkbox"/>			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), or Historical Awareness (H)	3	<input type="checkbox"/>			

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106 120 CREDIT HOURS					
# EEE 489: Senior Design Laboratory II (L)	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> See Degree Audit Reporting System (DARS) for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
Select 1 not previously selected:					
# EEE 460: Nuclear Concepts for the 21 st Century (3 hrs)					
# EEE 463: Electrical Power Plant (3 hrs)					
# EEE 470: Electric Power Devices (3 hrs)					
# EEE 471: Power System Analysis (3 hrs)					
# EEE 473: Electrical Machinery (3 hrs)					
# EEE 498: Pro-Seminar (Power Elec.) (3 hrs)	3	<input checked="" type="checkbox"/>			
# EEE 498: Pro-Seminar (Solar Energy) (3 hrs)	3	<input checked="" type="checkbox"/>			
# Technical Elective	3	<input checked="" type="checkbox"/>			
# Technical Elective	3	<input checked="" type="checkbox"/>			
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
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 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

**Major Map: Engineering Special Studies
(Pre-medical Engineering) –
Bachelor of Science in Engineering (B.S.E.)**
Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete BME 100 with a minimum grade of “C” or BIO 188Complete MAT 265 with a minimum grade of “C”An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course** If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.	
BME 100: Introduction to Bioengineering OR BIO 188: General Biology II (CS)	2 or 4	<input type="checkbox"/>		Grade of C in BME 100		
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
CHM 113: General Chemistry I (SQ)	4	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
BME 100: Introduction to Bioengineering OR BIO 188: General Biology II (SQ)	2 or 4	<input type="checkbox"/>		Grade of C in BME 100	<ul style="list-style-type: none">Complete BIO 188; BME 100 with a minimum grade of “C”; CHM 116; MAT 266 with a minimum grade of “C”; PHY 121 & 122Complete ASU101-FSE	
CHM 116: General Chemistry II (SQ)	4	<input type="checkbox"/>				
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
BME 235: Physiology for Engineers	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete PHY 131 & 132Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105	
PHY 131/132: University Physics II Electricity and Magnetism/Laboratory II (SQ)	3/1	<input type="checkbox"/>				
CHM 233/237: General Organic Chemistry I/Laboratory I	3/1	<input type="checkbox"/>				
CSE 100: Principles of Programming with C++ (CS)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
BME 200: Conservation Principles in Bioengineering	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete BME 200, 235 each with a minimum grade of “C”	
EEE 202: Circuits I	4	<input type="checkbox"/>				
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>				
CHM 234/238: General Organic Chemistry II/Laboratory II OR Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	4 or 3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
# BME 318: Biomaterials	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# BME 350: Signals and Systems for Bioengineering	3	<input checked="" type="checkbox"/>		Grade of C		
# CHM 341: Elementary Physical Chemistry	3	<input checked="" type="checkbox"/>				
# MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
# BME 300: Bioengineering Product Design	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# BME 331: Bioengineering Transport Phenomena	3	<input checked="" type="checkbox"/>		Grade of C		
# BME 370: Microcomputer Applications in Bioengineering	3	<input checked="" type="checkbox"/>		Grade of C		
CHM 234/238: General Organic Chemistry II/Laboratory II OR Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H) if CHM 234/238 completed	4 or 3	<input type="checkbox"/>				
# IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# BME 413: Biomedical Instrumentation (BME 413 + 423 = L)	3	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# BME 417: Biomedical Engineering Capstone Design I (L)	4	<input checked="" type="checkbox"/>		Grade of C		
# BME 423: Biomedical Instrumentation Laboratory	1	<input checked="" type="checkbox"/>		Grade of C		
# BME 434: Applications of Bioengineering OR # BME 416: Biomechanics OR # BME 419: Biocontrol Systems	3	<input checked="" type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
# BME 490: Biomedical Engineering Capstone Design II	4	<input checked="" type="checkbox"/>		Grade of C	# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input checked="" type="checkbox"/>				
# Technical Elective	1	<input checked="" type="checkbox"/>		Grade of C		
UD Humanities, Fine Arts & Design (HU) OR Social Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGECE: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">Complete at least one of: BME 111; CSE 110 (or 100) with a minimum grade of “C”; IEE 100 with a minimum grade of “C”; MAT 265 with a minimum grade of “C”ASU 101-FSE should be completed first semester.An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course ** If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.	
IEE 100: Intro to Engineering Design OR CSE 110: Principles of Programming with Java (or CSE 100: Principles of Programming with C++) (CS)	2 or 3	<input type="checkbox"/>		Grade of C		
BME 111: Engineering Perspectives on Biological Systems	3	<input type="checkbox"/>				
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
IEE 100: Intro to Engineering Design OR CSE 110: Principles of Programming with Java (or CSE 100: Principles of Programming with C++) (CS)	2 or 3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete<ul style="list-style-type: none">CSE 110 (or 100) with a minimum grade of “C”, OR PHY 121 & 122 with a minimum grade of “C”ENG 101 or 107 or 105 with minimum grade of “C”IEE 100 with a minimum grade of “C”MAT 265 with a minimum grade of “C”	
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31 45 CREDIT HOURS						
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>			<ul style="list-style-type: none">Complete CSE 110 (or 100) with a minimum grade of “C”, PHY 121 & 122 with a minimum grade of “C”Complete ECN 211; BME 111; MAT 266 with a minimum grade of “C”Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105	
CSE 205: Concepts of Computer Design and Data (CS)	3	<input type="checkbox"/>				
IEE 210: Introduction to Industrial Engineering	3	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>				
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
IEE 220: Business/Industrial Engineering	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete IEE 220 with a minimum grade of “C” *CHM 113 is a prerequisite and does not apply towards degree credit	
CHM 114: General Chemistry for Engineers OR CHM 116: General Chemistry II *	4	<input type="checkbox"/>				
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>				
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
IEE 300: Economic Analysis for Engineers	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 305: Information Systems Engineering	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 382: Probability & Statistics Lab	1	<input checked="" type="checkbox"/>		Grade of C		
Choose 2: EEE 202: Circuits I (4 hrs) MAE 212: Engineering Mechanics (4 hrs) MSE 250: Structure and Properties of Materials (3 hrs)	7 or 8	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
IEE 376: Operational Research Deterministic Technology	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 369: Work Analysis and Design (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Choose remaining 1: EEE 202: Circuits I (4 hrs) MAE 212: Engineering Mechanics (4 hrs) MSE 250: Structure and Properties of Materials (3 hrs)	3 or 4	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
IEE 470: Stochastic Operations Research	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 474: Quality Control	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 475: Simulating Stochastic Systems	4	<input checked="" type="checkbox"/>		Grade of C		
Career Focused Elective	3	<input checked="" type="checkbox"/>				
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
IEE 461: Production Control	3	<input checked="" type="checkbox"/>		Grade of C		
IEE 490: Project in Design/Development (L)	3	<input checked="" type="checkbox"/>		Grade of C		
IEE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Career Focused Elective	3	<input checked="" type="checkbox"/>				
Career Focused Elective	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete MAT 265 with a minimum grade of “C”; CHM 113 or 114; MSE 100.• ASU 101-FSE should be completed first semester.• Minimum CUM ASU 2.0 GPA required• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.• # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
CHM 114: General Chemistry for Engineers (SQ) OR CHM 113/116 : General Chemistry I/General Chemistry II (SQ)	4	<input type="checkbox"/>				
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
# MSE 100: Introduction of Materials Engineering	2	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• MSE 250 must be completed by the end of the 4th semester with a minimum grade of “C”• CHM 116 must be completed for those who took CHM 113• Complete MAT 266 with a minimum grade of “C”; and PHY 121 & 122• Minimum CUM ASU 2.0 GPA required• # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MSE 250: Structure and Properties of Materials	3	<input type="checkbox"/>		Grade of C		
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAT 267 with a minimum grade of “C”; and PHY 131 & 132• Complete First-Year Composition requirement: ENG 101 & 102 OR ENG 107 & 108 or ENG 105• Minimum CUM ASU 2.0 GPA required• # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
PHY 131/132: University Physics II Electricity and Magnetism/Laboratory II (SQ)	3/1	<input type="checkbox"/>				
BME 111: Engineering Perspectives on Biological Systems	3	<input type="checkbox"/>				
#MSE 215: Materials Synthesis	3	<input type="checkbox"/>				
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>			<ul style="list-style-type: none">• Minimum CUM ASU 2.0 GPA required• MSE 250 must be completed with a minimum grade of “C”.• # Designates Major Course: A minimum cumulative GPA of 2.0 required.	
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>				
# MSE 211: Introduction to Mechanics of Materials	3	<input type="checkbox"/>				
IEE 220: Business/Industrial Engineering	3	<input type="checkbox"/>				
# Advanced Science Elective	3	<input checked="" type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
Math or Science Elective	3	<input type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MSE 315: Mathematical and Computer Methods in Materials (CS)	3	<input checked="" type="checkbox"/>				
# MSE 330: Thermodynamics of Materials	3	<input checked="" type="checkbox"/>				
# MSE 355: Materials Structure and Microstructure	3	<input checked="" type="checkbox"/>				
# MSE 356: Materials Structure and Microstructure Laboratory	1	<input checked="" type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
# MSE 335: Materials Kinetics and Processing	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MSE 358: Introduction to Electronic, Magnetic, & Optical Properties	3	<input checked="" type="checkbox"/>				
# MSE 420: Physical Metallurgy	3	<input checked="" type="checkbox"/>				
# MSE 421: Physical Metallurgy Laboratory	1	<input checked="" type="checkbox"/>				
# MSE 450: Introduction to Materials Characterization	3	<input checked="" type="checkbox"/>				
# MSE 451: Introduction to Materials Characterization Laboratory	1	<input checked="" type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
# MSE 440: Mechanical Properties of Solids	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MSE 470: Polymers and Composites	3	<input checked="" type="checkbox"/>				
# MSE 471: Introduction to Ceramics	3	<input checked="" type="checkbox"/>				
# MSE 482: Materials Engineering Design (L)	3	<input checked="" type="checkbox"/>				
# Advanced Science Elective	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
# MSE 490: Capstone Design Project (L)	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.	
# MSE Technical Elective	3	<input type="checkbox"/>				
# MSE Technical Elective	3	<input type="checkbox"/>				
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
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 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
+ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116 or 115; MAT 265 each with a minimum grade of “C”+ ASU 101-FSE and MAE 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for petitioning replacement electives.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course*CHM 113 is a prerequisite and does not apply towards degree credit**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
CHM 114: General Chemistry for Engineers (SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>		Grade of C	
+MAE 100: Intro to Mechanical and Aerospace Engineering (or Department Approved Elective)	2	<input type="checkbox"/>		Grade of C in MAE 100	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM TWO: 16 30 CREDIT HOURS					
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAT 266; PHY 121, 122 each with a minimum grade of “C”
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM THREE: 31 45 CREDIT HOURS					
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete ENG 102 or 108 or 105; MAE 212; MAT 275; PHY 131, 132 each with a minimum grade of “C”• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>		Grade of C	
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II	3/1	<input type="checkbox"/>		Grade of C	
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
TERM FOUR: 46 60 CREDIT HOURS					
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAE 213, 240 each with a minimum grade of “C”.
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C	
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C	
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C	
MSE 250: Structure and Properties of Materials	3	<input type="checkbox"/>		Grade of C	
TERM FIVE: 61 75 CREDIT HOURS					
BME 111: Engineering Perspectives on Biological Systems (or dept approved BIO)	3	<input type="checkbox"/>			
MAE 322: Structural Mechanics	4	<input checked="" type="checkbox"/>		Grade of C	
MAE 340 Thermofluids II	3	<input checked="" type="checkbox"/>		Grade of C	
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input checked="" type="checkbox"/>			
TERM SIX: 76 90 CREDIT HOURS					
MAE 323: Computer-Aided Engineering II	2	<input checked="" type="checkbox"/>		Grade of C	
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C	
MAE 342: Principles of Mechanical Design	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
TERM SEVEN: 91 105 CREDIT HOURS					
MAE 488: Mechanical Engineering Design I	3	<input checked="" type="checkbox"/>		Grade of C	
MAE 491: Experimental Mechanical Engineering (L)	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
TERM EIGHT: 106 120 CREDIT HOURS					
MAE 400: Engineering Profession (L)	3	<input checked="" type="checkbox"/>		Grade of C	See advisor for approved General Electives.
MAE 489: Mechanical Engineering Design II	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
General Elective	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

**Major Map: Mechanical Engineering
(Computational and Mathematical Mechanics) –
Bachelor of Science in Engineering (B.S.E.)**
Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
+ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116 or 115; MAT 265 each with a minimum grade of “C”+ ASU 101-FSE and MAE 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for petitioning replacement electives.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course*CHM 113 is a prerequisite and does not apply towards degree credit**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
CHM 114: General Chemistry for Engineers (SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>		Grade of C	
+MAE 100: Introduction to Mechanical and Aerospace Engineering (or Department Approved Elective)	2	<input type="checkbox"/>		Grade of C in MAE 100	
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
TERM TWO: 16 30 CREDIT HOURS					
CSE 100: Principles of Programming with C++(CS) OR CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAT 266; PHY 121, 122 with a minimum grade of “C”
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C	
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM THREE: 31 45 CREDIT HOURS					
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete ENG 102 or 108 or 105; MAT 275; PHY 131, 132; MAE 212 each with a minimum grade of “C”• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>		Grade of C	
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C	
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
TERM FOUR: 46 60 CREDIT HOURS					
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAE 213, 240 each with a minimum grade of “C”
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C	
PHI 103: Principles of Sound Reasoning (HU)	3	<input type="checkbox"/>			
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C	
MSE 250: Structure and Properties of Materials	3	<input type="checkbox"/>		Grade of C	
TERM FIVE: 61 75 CREDIT HOURS					
MAE 340: Thermofluids II	3	<input checked="" type="checkbox"/>		Grade of C	
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C	
MAE 322: Structural Mechanics	4	<input checked="" type="checkbox"/>		Grade of C	
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C	
TERM SIX: 76 90 CREDIT HOURS					
BME 111: Engineering Perspectives on Biological Systems (or dept approved BIO)	3	<input type="checkbox"/>			
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C	
MAE 323 Computer-Aided Engineering II	2	<input checked="" type="checkbox"/>		Grade of C	
MAE 342: Principles of Mechanical Design	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
TERM SEVEN: 91 105 CREDIT HOURS					
MAE 491: Experimental Mechanical Engineering (L)	3	<input checked="" type="checkbox"/>		Grade of C	
MAE 488: Mechanical Engineering Design I	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness, (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM EIGHT: 106 120 CREDIT HOURS					
MAE 400: Engineering Profession (L)	3	<input checked="" type="checkbox"/>		Grade of C	
MAE 489: Mechanical Engineering Design II	3	<input checked="" type="checkbox"/>		Grade of C	
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>			
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

**Major Map: Mechanical Engineering
(Energy and Environment) –
Bachelor of Science in Engineering (B.S.E.)**
Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2009-2010

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
+ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">• Complete CHM 114 or 116 or 115; MAT 265 each with a minimum grade of “C”+ ASU 101-FSE and MAE 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for petitioning replacement electives.• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course <p>*CHM 113 is a prerequisite and does not apply towards degree credit</p> <p>**If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.</p>	
CHM 114: General Chemistry for Engineers(SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>		Grade of C		
+MAE 100: Introduction to Mechanical and Aerospace Engineering (or Department Approved Elective)	2	<input type="checkbox"/>		Grade of C in MAE 100		
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAT 266; PHY 121, 122 each with a minimum grade of “C”	
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete ENG 102 or 108 or 105 ; MAT 275; PHY 131, 132; MAE 212 each with a minimum grade of “C”• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105	
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C		
PHY 131/132: University Physics II Electricity and Magnetism/ Laboratory (SQ)	3/1	<input type="checkbox"/>		Grade of C		
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
TERM FOUR: 46 60 CREDIT HOURS						
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete MAE 213, 240 each with a minimum grade of “C”	
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C		
CHM 231: Elementary Organic Chemistry	3	<input type="checkbox"/>		Grade of C		
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C		
MSE 250: Structure and Properties of Materials	3	<input type="checkbox"/>		Grade of C		
TERM FIVE: 61 75 CREDIT HOURS						
MAE 340: Thermofluids II	3	<input checked="" type="checkbox"/>		Grade of C		
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C		
MAE 322: Structural Mechanics	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 323: Computer-Aided Engineering II	2	<input checked="" type="checkbox"/>		Grade of C		
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SIX: 76 90 CREDIT HOURS						
BIO 319 Environmental Science (G) or BIO 320: Fundamentals of Ecology	3	<input checked="" type="checkbox"/>				
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C		
MAE 342: Principles of Mechanical Design	3	<input checked="" type="checkbox"/>		Grade of C		
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SEVEN: 91 105 CREDIT HOURS						
MAE 382: Thermodynamics	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 491: Experimental Mechanical Engineering (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
GCU 364: Energy in the Global Arena (SB,G) or PUP 190: Sustainable Cities (HU, G or SB,G)	3	<input type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
MAE 400: Engineering Profession (L)	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 446: Energy Systems Design	3	<input checked="" type="checkbox"/>		Grade of C		
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
GPH 314: Global Change (HU,G) or PHI 310: Environmental Ethics (HU)	3	<input checked="" type="checkbox"/>				
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB) (6 hrs min in both SB & HU required)	3	<input type="checkbox"/>				

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Tracking Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101: The ASU Experience	1	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">ASU 101 is for ASU freshman students only. Not required of transfer studentsAn SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics courseMinimum 2.50 ASU cumulative GPA	
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
MAT 142: College Mathematics (MA) or higher	3	<input type="checkbox"/>				
Second Language	4	<input type="checkbox"/>		Grade of C		
JMC 101: Grammar for Journalists	1	<input type="checkbox"/>		Grade of Y		
JMC 110: Principles and History of Journalism (SB) (includes English Grammar Exam)	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16 30 CREDIT HOURS						
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
Statistics (CS)	3	<input type="checkbox"/>				
Second Language	4	<input type="checkbox"/>				
JMC 201: News Reporting and Writing (L)	3	<input type="checkbox"/>		Grade of C		
HST 109: United States to 1865 (HU/SB, H) OR HST 110: United States since 1865 (SB, H)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
Complete at least one of two: JMC 366: Journalism Ethics and Diversity OR JMC 301: Intermediate Reporting & Writing (Print/PR/Digital) JMS 315: Intermediate Reporting & Writing (Broadcast/Digital)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
JMC 425: Online Media	3	<input checked="" type="checkbox"/>		Grade of C		
Natural Science – Quantitative (SQ)	4	<input type="checkbox"/>				
Second Language	3	<input type="checkbox"/>				
SOC 101: Intro to Sociology (SB)	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
Complete at least one of two: JMC 366: Journalism Ethics and Diversity OR JMC 301: Intermediate Reporting & Writing (Print/PR/Digital) JMS 315: Intermediate Reporting & Writing (Broadcast/Digital)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPAMust complete 366 and 301 or 315 (depending on track) by end of term 4 with grade of “C or better”	
POS 110: Government and Politics (SB) OR POS 310: American Government (SB)	3	<input type="checkbox"/>				
Second Language (G)	4	<input type="checkbox"/>				
English Literature (HU)	3	<input type="checkbox"/>				
HST Elective:	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
JMC 313: Introduction to Editing (Print/PR/Digital) OR JMC 345: Videography (Broadcast/Digital)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
Track class ***	3	<input checked="" type="checkbox"/>		Grade of C		
JMC 484: Internship	3	<input checked="" type="checkbox"/>		Grade of C		
PHI 101: Introduction to Philosophy (HU) OR PHI 103: Principles of Sound Reasoning (L or HU) OR PHI 105: Intro to Ethics (HU) OR PHI 305: Ethical Theory (HU) OR PHI 306: Applied Ethics (HU) OR PHI 309: Social and Political Philosophy (HU)	3	<input type="checkbox"/>				
Natural Science (SQ or SG)	4	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
JMC 402: Mass Communication Law (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	<input type="checkbox"/>				
Track class ***	3	<input checked="" type="checkbox"/>		Grade of C		
Related Area	3	<input type="checkbox"/>		Grade of C		
Elective	2	<input type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
Track class ***	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
PGS 101: Intro to Psychology (SB)	3	<input type="checkbox"/>				
Related Area	3	<input checked="" type="checkbox"/>		Grade of C		
Related Area	3	<input checked="" type="checkbox"/>		Grade of C		
Awareness Area – Cultural Diversity (C) or Elective if completed	3	<input type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
JMC 473: Business of Journalism	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum 2.50 ASU cumulative GPA	
JMC/MCO Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Related Area	3	<input checked="" type="checkbox"/>		Grade of C		
Upper Division Elective	3	<input checked="" type="checkbox"/>				

*****Track Classes:**
Broadcast

JMC 330: Television Reporting AND
JMC 475: Television Newscast Production (3-9 hrs) OR
JMC 437: Documentary Production and Broadcast Elective
JMC 478: Cronkite News Service (3-9 hrs)

Print Journalism

JMC 325: Multimedia Reporting OR
JMC 440: Magazine Writing OR
JMC 470: Depth Reporting AND
JMC 478: Cronkite News Service (3-9 hrs) OR
2 Paired Journalism/online electives
(chosen in consultation with your advisor)

Public Relations

JMC 310: Public Relations AND
JMC 415: Writing for Public Relations AND
JMC 417: Public Relations Campaign

Digital Journalism

JMC 460: Advanced Online AND
JMC 494: Digital Media Entrepreneurship AND
JMC 325: Multimedia Reporting OR
JMC 494: Knight Center Independent Study OR
JMC 494: New Media Innovation Lab

Graduation Requirements Summary:

Total Hours (120 minimum)	Total UD Hours (minimum 45)	Cumulative GPA (2.50 minimum required for major)	Total Hrs at ASU (minimum 30)	Resident Credit for Academic Recognition (minimum 56)	Total Comm. College Hrs. (maximum 64)

General University Requirements: Legend

- **General Studies Core Requirements:**
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

Students other than first time freshmen may take the English Grammar Exam one time to attempt to test out of JMC 101 Grammar for Journalists
Majors must maintain at least a 2.5 ASU cumulative GPA and a 2.5 JMC cumulative GPA to take JMC courses beyond JMC 201
Students must complete at least 12 hours of upper division coursework outside the major
Students must complete a minimum of 56 hours of ASU coursework to qualify for ASU honors at graduation

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 15 CREDIT HOURS					
ENG 101 or 102: First-Year Composition or ENG 105: Advanced First-Year Composition or ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses• ASU Math Placement Exam score determines placement in Mathematics course• Complete First-Year Composition requirement by the end of semester 3• Complete Math course requirement by end of semester 3
LAW 105: Structure/Methodology of American Legal System	3	<input type="checkbox"/>		Grade of C	
MAT 142: College Mathematics or higher (MA)	3	<input type="checkbox"/>		Grade of C	
Social & Behavioral Science (SB)	3	<input type="checkbox"/>			
ASU 101: The ASU Experience	1	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM TWO: 16 30 CREDIT HOURS					
ENG 101 or 102: First-Year Composition or ENG 105: Advanced First-Year Composition or ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">• Complete First-Year Composition requirement by the end of semester 3• Complete Math course requirement by end of semester 3
Computer/Statistics/Quantitative applications (CS)	3	<input type="checkbox"/>			
Cultural Diversity in the US (C)	3	<input type="checkbox"/>			
Natural Science – General (SG) or Quantitative (SQ)	4	<input type="checkbox"/>			

NOTE: The College of Law is still considering and developing the curriculum for the BS in Legal Studies and may propose changes to the LAW courses required after term 2. The LAW courses listed in terms 3-8 are still pending final approval by the College of Law and the University.

TERM THREE: 31 45 CREDIT HOURS					
LAW 210: Legal Research	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete First-Year Composition requirement by the end of semester 3Complete Math course requirement by end of term 3
POS 270: American Legal System (SB)	3	<input type="checkbox"/>		Grade of C	
Literacy & Critical Inquiry (L)	3	<input type="checkbox"/>			
Natural Science – Quantitative (SQ)	4	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM FOUR: 46 60 CREDIT HOURS					
LAW 215: Legal Writing	3	<input type="checkbox"/>		Grade of C	
LAW 220: Technology & Legal Practice	3	<input type="checkbox"/>			
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>			
Historical Awareness (H)	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM FIVE: 61 75 CREDIT HOURS					
LAW 310: Advanced Legal Research	3	<input checked="" type="checkbox"/>			
LAW 320: Legal Ethics	3	<input checked="" type="checkbox"/>			
LAW 330: Alternative Dispute Resolution	3	<input checked="" type="checkbox"/>			
Upper division Literacy & Critical Inquiry (L) (ENG 301: Writing for Professions or ENG 302: Business Writing recommended)	3	<input checked="" type="checkbox"/>			
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>			
TERM SIX: 76 90 CREDIT HOURS					
LAW 340: Torts/Personal Injury Practice	3	<input checked="" type="checkbox"/>			
LAW 350: Law Office Management & Accounting	3	<input checked="" type="checkbox"/>			
LAW 360: Administrative Law & Process	3	<input checked="" type="checkbox"/>			
Upper division Humanities, Fine Arts & Design (HU) or Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
Global Awareness (G)	3	<input type="checkbox"/>			
TERM SEVEN: 91 105 CREDIT HOURS					
LAW 370: Business & Corporate Practice	3	<input checked="" type="checkbox"/>			
LAW 380: Litigation Practice	3	<input checked="" type="checkbox"/>			
Upper division LAW course	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM EIGHT: 106 120 CREDIT HOURS					
Upper division LAW course	3	<input checked="" type="checkbox"/>			
Upper division LAW course	3	<input checked="" type="checkbox"/>			
Upper division LAW course	3	<input checked="" type="checkbox"/>			
Upper division elective	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours (120 minimum)	Total UD Hours (minimum 45)	Cumulative GPA (2.00 minimum)	Total Hrs at ASU (minimum 30)	Resident Credit for Academic Recognition (minimum 56)	Total Comm. College Hrs. (maximum 64)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

<i>I. First Year Composition (3-6 hours)</i>	Total Hours	UD Hours	Res Hours	Grade
ENG 101:First Year Comp 1 (3) and				
ENG 102:First Year Comp 2 (3) <i>or, if eligible</i>				
ENG 105: Advance First Year Comp (3)				

II. University General Studies (35 hours)

Humanities/Fine Arts & Social/Behavioral Sciences (15 hours) Required: 15 hours combined; 6 hours in one area, 9 hrs in the other AND one course must be upper division.

HU:				
HU:				
SB:				
SB:				
HU or SB:				

Natural Sciences (8 hours)

SQ:				
SQ/SG:				

Mathematics & Statistics/Computer Applications (6 hours)

MA: MAT 142: College Mathematics (MA) or higher				
CS:				

Literacy & Critical Inquiry (6 hours)

L:				
Upper division L:				

Awareness Areas (2 courses minimum and must fulfill all 3 areas)

Double counting is permissible between Awareness Areas, other courses that fulfill graduation requirements, and within the Awareness Areas.

Global Awareness (G):				
Historical Awareness (H):				
Cultural Diversity (C):				

II. Major requirements

ASU 101: The ASU Experience (freshmen only)	1		
COM 494: Society and the Individual	3	3	

Graduation Requirements

Total Hours Required (120 hrs. min)	Upper Division Hours Required (45 hrs min)	ASU Resident Hours Required (30 hrs min)	Max. 2-yr Transfer Hours allowed (64 hrs max.)	Minimum GPA required (2.00 min.)	ASU Resident Hours for Academic Recognition (56 hrs min)

III. BGS Clusters (36 hours)

Cluster #1				

Cluster #2

PROJECT NAME				

Cluster #3

Cluster #4

IV. Electives

[illegible]

Please Note:

- A grade of C or better is required in all Major courses
- Majors must maintain at least a 2.0 ASU cumulative GPA and 2.0 Major GPA
- Twenty one hours in the major must be upper division
- Cluster classes in the Major cannot be used for Minor classes or other clusters
- Consult the ASU catalog for more information about General Studies requirements
- Elective hours needed may change and are dependent on how other requirements are satisfied

- Evaluation of transfer courses for cluster requirements should be directed to the appropriate departmental advisor.
 - Questions regarding cluster requirements, course prerequisites and class registration should be directed to an advisor in the department or college offering the cluster.
 - See ASU catalog for information about repeating courses
 - This assessment is supplemental to your DARS report.
- To obtain a copy of your DARS report, go to:
<http://www.asu.edu/interactive>

Cluster Choices: Students will choose four [4] clusters and at least three [3] classes within each one. Language and Culture; Values and Society; Healthcare; Society and Mass Media; Special Events Management; Nonprofit Management; Meeting Planning; The Urban Experience; Leadership; U.S. Social Welfare System and Social Services; Criminology and Criminal Justice; Law and Criminal Justice; Science, Technology and Society. See <http://sls.asu.edu/gs/clusters.html>.

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 16 CREDIT HOURS						
ASU 101: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">ASU 101 is for ASU freshman students only Not required of transfer studentsAn SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course	
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
MA (MAT 142 or higher)	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM TWO: 17 32 CREDIT HOURS						
ENG 101 or 102: First-Year Composition ENG 105: Advanced First-Year Composition ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Minimum C grade in first-year composition coursesMath (MA) requirement must be completed by the end of the second semester	
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
Computer/Statistics/Quantitative applications (CS)	3	<input type="checkbox"/>				
Natural Science – Quantitative (SQ)	4	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM THREE: 33 47 CREDIT HOURS						
HTY 301 Historical Research Methods (SB, H)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">First-year composition requirement completed with a minimum “C” grade.Academic Review: Students should choose a track within the degree	
Track specific focus area course (see list below)	3	<input type="checkbox"/>		Grade of C		
Literacy & Critical Inquiry (L)	3	<input type="checkbox"/>				
Natural Science – Quantitative (SQ) or General (G)	4	<input type="checkbox"/>				
Elective	2	<input type="checkbox"/>				
TERM FOUR: 48 62 CREDIT HOURS						
HST 343 American Southwest (SB, H)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 6 hours of Upper Division Coursework must be completed in this semester	
HST 344 Arizona (SB, H)	3	<input checked="" type="checkbox"/>		Grade of C		
Track specific elective course (see list below)	3	<input type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM FIVE: 63 76 CREDIT HOURS						
Track specific focus area course (see list below)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 9 hours of Upper Division coursework must be completed in this semester.	
Track specific focus area course (see list below)	3	<input type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
Elective	2	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM SIX: 77 91 CREDIT HOURS						
Track specific focus area course (see list below)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 9 hours of Upper Division coursework must be completed in this semester	
Track specific elective area course (see list below)	3	<input type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM SEVEN: 92 106 CREDIT HOURS						
Track specific elective area course (see list below)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 9 hours of Upper Division coursework must be completed in this semesterC (cultural awareness) requirement may be satisfied by track-specific course or other elective	
Cultural Diversity in the US (C), or if completed, Elective	3	<input type="checkbox"/>				
Upper Division Elective	3	<input checked="" type="checkbox"/>				
Upper Division Elective	3	<input checked="" type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM EIGHT: 107 120 CREDIT HOURS						
HTY498: History and Culture Capstone Project	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 9 hours of Upper Division coursework must be completed in this semesterG (global awareness) requirement may be satisfied by track-specific course or other elective	
Global Awareness (G) or if completed, Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Elective	2	<input type="checkbox"/>				

Graduation Requirements Summary:

Total Hours (120 minimum)	Total UD Hours (minimum 45)	Cumulative GPA (2.00 minimum)	Total Hrs at ASU (minimum 30)	Resident Credit for Academic Recognition (minimum 56)	Total Comm. College Hrs. (maximum 64)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
- Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

The B.A. in History and Culture has six tracks: The following are the focus area & specific elective courses for each track:

<u>Track 1: Archival Preservation and Digital Media</u> <u>Focus Area Courses</u> GIT 294 Special Topics: Introduction to Digital Photography GIT 303 Digital Publishing HTY 220/294 Intro to Digital Archives HTY 230/294 Intro to Corporate Archiving HTY 334/394 Archival Preservation and Digital Media HTY 336/394 Editing Historical Documents HTY 370/394 History of Collecting HTY 410/394 Historic Preservation	<u>Track 1: Archival Preservation and Digital Media</u> <u>Track Specific Elective Courses</u> Any courses with ARD, ARS, ART, GIT, HST, HTY or TWC prefix
<u>Track 2: Environmental History and Culture</u> <u>Focus Area Courses</u> HST 319 U.S. Urban History HTY 320/394 History of American Agriculture HTY 326 History of Landscaping HTY 350/394 Environmental History HTY 374/394 Western Rivers HTY 440/494 The Pre-Modern City HTY 450/494 History of Ecology and Conservation PHI 327 Environmental Philosophy	<u>Track 2: Environmental History and Culture</u> <u>Track Specific Elective Courses</u> Any courses with an ABS, AGB, BIO, HST, or HTY prefix
<u>Track 3: History and Culture of The American Southwest</u> <u>Focus Area Courses</u> HST 293 Historical Themes in Latin America HST 305 Studies in Latin American History HST 329 Women in 20 th Century U.S. West HST 330 Mexican Women in the U.S. Conquests and Migration HST 331 Mexican-American History to 1900 HST 332 Mexican-American History since 1900 HST 337 American Indian History to 1900 HST 338 American Indian History since 1900 HST 341 U.S. West, 19 th Century HST 342 U.S. West, 20 th Century HST 417 Topics in Mexican American History	<u>Track 3: History and Culture of the American Southwest</u> <u>Track Specific Elective Courses</u> Any courses with an AIS, CCS, HST, or HTY prefix. Students may also take courses with an SPA or SPN prefix. Students are strongly encouraged to complete SPA 101 and SPA 102.

<p><u>Track 4: History and Philosophy of Science and Technology</u> <u>Focus Area Courses</u></p> <p>HTY 310/394 History of Technology HTY 312/394 History of Science HTY 314/394 History of Computing HTY 316 History of Engineering HTY 320/394 History of American Agriculture HTY 325/394 History of American Business HTY 326 History of Landscaping HTY 330/394 History of Printing and Media HTY 340/394 Exploration and Science HTY 350/394 Environmental History HTY 360/394 Women in Science PHI 306 Applied Ethics PHI 314 Philosophy of Science</p>	<p><u>Track 4: History and Philosophy of Science and Technology</u> <u>Track Specific Elective Courses</u></p> <p>Any courses with an ABS, AGB, BIO, GIT, HST, HTY, or PHI prefix.</p>
<p><u>Track 5: History and Public Policy</u> <u>Focus Area Courses</u></p> <p>HST 109 The United States to 1865 HST 110 The United States since 1865 HST 210 American Social History HST 315 Political History of the United States HST 320 U.S. Urban History Since 1850 HST 325 Immigration and Ethnicity in the United States HST 342 The U.S. West in the 20th Century HST 484 Internship POS 220 Political Issues and Public Policy POS 310 American National Government POS 325 Public Policy Development POS 426 Elements of Public Policy</p>	<p><u>Track 5: History and Public Policy</u> <u>Track Specific Elective Courses</u></p> <p>Any courses with an HST, HTY, PGV, PLS, or POS prefix.</p>
<p><u>Track 6: History for Secondary Teachers</u> <u>Focus Area Courses</u></p> <p>HST 101 Global History HST 102 Western Civilization HST 103 Western Civilization HST 104 Western Civilization HST 109 United States to 1865 HST 110 United States since 1865 HST 210 American Social History HST 313 American Cultural History to 1865 HST 314 American Cultural History since 1865 HST 325 Immigration and Ethnicity HST 337 American Indian History to 1900 HST 338 American Indian History since 1900 HST 341 U.S. West, 19th Century HST 342 U.S. West, 20th Century REL 100 Religions of the World</p>	<p><u>Track 6: History for Secondary Teachers</u> <u>Track Specific Elective Courses</u></p> <p>In consultation with an advisor, students may use courses with the following prefixes: ASB, ECN, GCU, GPH, HST, HTY, PGV, POL, REL, SOC, WSH, or WST.</p>

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0 16 CREDIT HOURS					
ASU 101: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">ASU 101 is for ASU freshman students only. Not required of transfer studentsAn SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C	
MAT 142: College Mathematics (MA) or higher	3	<input type="checkbox"/>			
Social & Behavioral Sciences (SB)	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM TWO: 17 32 CREDIT HOURS					
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete Mathematical Studies (MA)
Computer Science course (CS)	3	<input type="checkbox"/>			
Natural Science-Quantitative (SQ)	4	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM THREE: 33 47 CREDIT HOURS					
Complete 2 courses from: ENG 200: Critical Reading and Writing About Literature (HU) ENG 217: Writing Reflective Essays (L) ENH 230: Introduction to Film Studies (HU)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Complete First-Year Composition requirement: ENG 101 & 102 OR ENG 107 & 108 or 105MILESTONE: Students must select a track
	3	<input type="checkbox"/>		Grade of C	
Natural Science- Quantitative (SQ) or General (SG)	4	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
Elective	2	<input type="checkbox"/>			
TERM FOUR: 48 62 CREDIT HOURS					
Complete remaining course from: ENG 200: Critical Reading and Writing About Literature (HU) ENG 217: Writing Reflective Essays (L) ENH 230: Introduction to Film Studies (HU)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">HU or SB requirement may be satisfied by track-specific course or other elective
Track specific focus area course (see list on page 2)	3	<input type="checkbox"/>		Grade of C	
Track specific focus area course (see list on page 2)	3	<input type="checkbox"/>		Grade of C	
Social & Behavioral Sciences (SB)	3	<input type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM FIVE: 63 76 CREDIT HOURS					
Track specific focus area course (see list on page 2)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 9 hours of Upper Division coursework must be completed in this semester.HU or SB requirement may be satisfied by track-specific course or other elective
Track specific focus area course (see list on page 2)	3	<input type="checkbox"/>		Grade of C	
Upper Division Literacy & Critical Inquiry (L)	3	<input checked="" type="checkbox"/>			
Elective	2	<input type="checkbox"/>			
Upper Division Elective	3	<input checked="" type="checkbox"/>			
TERM SIX: 77 91 CREDIT HOURS					
Track specific elective course (see list below)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 12 hours of Upper Division coursework must be completed in this semesterH (historical awareness) requirement may be satisfied by track-specific course or other electiveUpper Division HU or SB requirement may be satisfied by track-specific course or other elective
Track specific elective course (see list below)	3	<input type="checkbox"/>		Grade of C	
H, if completed take elective	3	<input type="checkbox"/>			
Upper Division HU or SB, if completed take elective	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM SEVEN: 92 106 CREDIT HOURS					
Track specific elective course (see list below)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 12 hours of Upper Division coursework must be completed in this semesterC (cultural awareness) requirement may be satisfied by track-specific course or other elective
C (cultural awareness) if completed, take elective	3	<input type="checkbox"/>			
Upper Division Elective	3	<input checked="" type="checkbox"/>			
Upper Division Elective	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
TERM EIGHT: 107 120 CREDIT HOURS					
ENH498: Literature, Writing, and Film Capstone Project	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">A minimum of 12 hours of Upper Division coursework must be completed in this semesterG (global awareness) requirement may be satisfied by track-specific course or other elective
G (global awareness) if completed, take elective	3	<input type="checkbox"/>			
Upper division Elective	3	<input checked="" type="checkbox"/>			
Elective	3	<input type="checkbox"/>			
Elective	2	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours (120 minimum)	Total UD Hours (minimum 45)	Cumulative GPA (2.00 minimum)	Total Hrs at ASU (minimum 30)	Resident Credit for Academic Recognition (minimum 56)	Total Comm. College Hrs. (maximum 64)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
- Natural Science-Quantitative (SQ)
- Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

The B.A. in Literature, Writing, and Film has six tracks. The following are the focus area & specific elective courses for each track:

Tracks	Track Specific Focus Area Courses	Track Specific Elective Courses
Literature and Film	Students choose from among the following: ENH 230: Introduction to Film Studies (L or HU) ENH 332: Literature on Film ENH 372: Environmental Creative Nonfiction (L & HU) ENH 374: Environmental Issues in Literature (L & HU) ENH 378: The American Southwest in Literature and Film (L & HU) ENH 380: Medievalism in Modern Culture ENH 430: Studies in International Film (L or HU, G) ENH 436: American Film Musicals (L or HU) ENH 440: Great Directors (L or HU) ENH 475: Environmental Literary Criticism ENG 221: Survey of English Literature (HU) ENG 222: Survey of English Literature (HU, H) ENG 241: Literatures of the United States to 1860 (HU) ENG 242: Literatures of the United States, 1860-Present (HU) ENG 321: Introduction to Shakespeare (L or HU) ENG 365: History of Film (HU) ENG 385: Career Development for English Majors (L)	Any ENG, ENH, or FMS prefix courses
Writing	Students choose from among the following: ENH 245: Introduction to Writing Family History (L) ENH 246: Introduction to Researching Family History ENH 317: Publishing in Literary Magazines ENH 320: Writing a Personal History (L) ENH 322: Editing Family History for Public Audiences (L) ENH 325: Writing Creative Nonfiction for Publication ENH 346: Intermediate Family History Research ENH 360: Travel Writing ENH 362: Digital Project Management for Humanities and Arts ENH 364: Digital Media in the Humanities and Arts ENH 370: Travel Writing (L) ENG 204: Introduction to Contemporary Literature (HU) ENG 210: Introduction to Creative Writing ENG 310: Intermediate Creative Writing ENG 411: Advanced Creative Writing ENG 412: Creative Nonfiction ENG 212 English Prose Style ENG 215 Strategies for Academic Writing ENG 216 Persuasive Writing on Public Issues ENG 385 Career Development for English Majors ENG 472 Rhetorical Studies TWC 301 General Principles of Multimedia Writing	Any ENG or ENH Writing courses Any Upper Division ENG or ENH literature courses Any of the following GIT courses: GIT 194: Introduction to Computer Documents GIT 294: Introduction to Digital Photography GIT 210: Creative Thinking and Design Visualization GIT 237: Web Content Design GIT 233 Digital Publishing GIT 333 Printing Technology GIT 414 Web Site Design and Internet/Web Technologies Any of the following TWC courses: TWC 401 Principles of Technical Communication TWC 403 Writing for Professional Publication TWC 411 Principles of Visual Communication TWC 421 Principles of Writing with Technology
English for Secondary Teachers	Students choose from among the following: ENH 332: Literature on Film ENH 378: The American Southwest in Literature (L & HU) ENH 380: Medievalism in Modern Culture (L & HU) ENH 420: Methods of Teaching Secondary Writing ENH 425: Methods of Teaching Secondary Literature and Language ENG 221: Survey of English Literature (HU) ENG 222: Survey of English Literature (HU, H) ENG 241: Literatures of the United States to 1860 (HU) ENG 242: Literatures of the United States, 1860-Present (HU) ENG 314 Modern Grammar ENG 321: Introduction to Shakespeare (L or HU) ENG 333 American Ethnic Literature	Any courses with an ENG or ENH prefix

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Div.	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
STS 101: Introduction to Science, Technology and Society (SB)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">ASU 101 is for ASU freshman students only Not required of transfer studentsTransfer students with 64 credit hours or more transferred must take STS 304 instead of STS 101.An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course	
ASU 101: The ASU Experience	1	<input type="checkbox"/>				
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
Mathematics (MA)	3	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
STS 110: Global Technology and Development (SB, G)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none">* It is highly recommended that STS students take a statistics course for their (CS) general studies requirement.Transfer students with 64 credit hours or more transferred must take STS 317 instead of STS 110.	
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
Computer/Statistics/Quantitative applications (CS)*	3	<input type="checkbox"/>				
Social & Behavioral Sciences (SB)	3	<input type="checkbox"/>				
Global Awareness (G)	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
STS 301: Research in Science and Technology Studies (SB)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">First-year composition requirement completed	
Literacy & Critical Inquiry (L)	3	<input type="checkbox"/>				
Natural Science-General (SG) OR Natural Science-Quantitative (SQ)	4	<input type="checkbox"/>				
Cultural Diversity in the US (C)	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
STS 302: Philosophy of Science and Technology	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">See your advisor for a list of courses that fulfill your chosen STS Track and to discuss the required Minor for the degree.	
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
Natural Science-Quantitative (SQ)	4	<input type="checkbox"/>				
Approved upper division STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved Minor course	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
STS 303: History of Science and Technology	3	<input checked="" type="checkbox"/>		Grade of C		
Approved upper division STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved upper division STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved Minor course	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
STS 305: Science and Social Theory	3	<input checked="" type="checkbox"/>		Grade of C		
Approved upper division STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved Minor course	3	<input type="checkbox"/>				
Historical Awareness (H)	3	<input type="checkbox"/>				
Upper division elective	3	<input checked="" type="checkbox"/>				
TERM SEVEN: 91 105 CREDIT HOURS						
STS 306: Social Effects of Science and Technology	3	<input checked="" type="checkbox"/>		Grade of C		
Approved upper division STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved Minor course	3	<input type="checkbox"/>				
Social & Behavioral Sciences (SB)	3	<input type="checkbox"/>				
Upper Division Literacy & Critical Inquiry (L)	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
STS 484: Capstone/Internship	3	<input checked="" type="checkbox"/>		Grade of C		
Approved STS Track course	3	<input checked="" type="checkbox"/>		Grade of C		
Approved Minor course	3	<input type="checkbox"/>				
Approved Minor course	3	<input type="checkbox"/>				
Upper division Humanities, Fine Arts & Design (HU) OR Upper division Social & Behavioral Sciences (SB)	3	<input checked="" type="checkbox"/>				

Graduation Requirements Summary:

Total Hours (120 minimum)	Total UD Hours (minimum 45)	Cumulative GPA (2.00 minimum)	Total Hrs at ASU (minimum 30)	Resident Credit for Academic Recognition (minimum 56)	Total Comm. College Hrs. (maximum 64)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

Students who begin the STS program at ASUPOLY as freshmen will take STS 101 and 110. STS 304 and 317 are for transfer students with 64 units who need upper division credit.

It is highly recommended that STS students take a statistics course for their (CS) general studies requirement.

Students in the Science, Technology, and Governance Track will complete the following coursework or their equivalents:

- POS 310 American National Government
- STS 318 Science, Technology and Government
- STS 325 Science, Technology and Public Policy
- STS 331 Ethical Issues in Science and Technology
- STS 364 Science, Technology and National Security
- STS 425 Law, Values, and Science and Technology

Students in the Global Technology and Development Track will complete the following coursework or their equivalents:

- STS 328 Science, Technology and Culture
- STS 329 Cultivating Technology in Newly Industrializing Countries
- STS 330 Information Technology and Globalization
- STS 331 Ethical Issues in Science and Technology
- STS 332 Seminar: Global Issues in Science and Technology
- STS 364 Science, Technology, and National Security

Students in the General STS Track must meet with an advisor to determine the coursework needed to fulfill this area of the degree.

- The General STS Track has been designed as the integrative component of the STS degree program. It can be used to design dual degrees and double majors with other programs. Students can utilize it in integrating other degree programs and courses available at ASU.
 - For instance, the Track can be employed in establishing a pre-law degree program with more emphasis on a science and technology curriculum.
 - Students seeking secondary teaching certification can incorporate social science pedagogy courses.
 - In each instance when this Track is chosen by a student, the student will work in conjunction with faculty advisors within Social and Behavioral Sciences and other units to work out an appropriate program of study.
 - Students can utilize courses available at any unit within ASU for this purpose.

All STS students must take an approved Minor for STS Majors (18 Semester Hours)

- Each approved program of study in the STS program must include at least one minor in a substantive field.
- STS students are encouraged to take minors in career fields, e.g., business, technology, technical communication, education, etc.
- The minor is to help prepare the student for a career upon graduation.
- Before taking minor courses, students must meet with their advisor to determine which minor is best suited for their chosen career field.

			Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0 15 CREDIT HOURS						
ASU 101: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none">ASU 101 is for ASU freshman students only. Not required of transfer studentsAn SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition coursesASU Math Placement Exam score determines placement in Mathematics course	
ENG 101 and 102: First-Year Composition OR ENG 107 and 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
MA (MAT 142 or any MA equivalent)	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>				
Natural Science- Quantitative (SQ)	4	<input type="checkbox"/>				
TERM TWO: 16 30 CREDIT HOURS						
ENG 101 or 102: First-Year Composition ENG 105: Advanced First-Year Composition ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
Computer/Statistics/Quantitative applications (CS)	3	<input type="checkbox"/>		Grade of C		
Natural Science –General (SG) or Quantitative (SQ)	4	<input type="checkbox"/>				
Social & Behavioral Science (SB)	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
TERM THREE: 31 45 CREDIT HOURS						
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>			<ul style="list-style-type: none">First-year composition requirement completedRelated area: In consultation with an advisor; suggested courses use the following prefixes: GIT, ENG, COM, or any other course related to the student’s career path.	
Cultural Diversity in the US (C), if completed take elective	3	<input type="checkbox"/>				
Social & Behavioral Science (SB)	3	<input type="checkbox"/>				
Related Area Course	3	<input type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
TERM FOUR: 46 60 CREDIT HOURS						
TWC 301 Introduction to Multimedia Writing (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Humanities, Fine Arts & Design (HU) or Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Global Awareness (G), if completed take elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Historical Awareness (H), if completed take elective	3	<input type="checkbox"/>				
TERM FIVE: 61 75 CREDIT HOURS						
TWC 401 Principles of Technical Communication (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Elective	3	<input type="checkbox"/>				
Upper Division Elective	3	<input checked="" type="checkbox"/>				
TERM SIX: 76 90 CREDIT HOURS						
TWC 411, 421, or 431	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Related area: In consultation with an advisor; suggested courses use the following prefixes: GIT, ENG, COM, or any other course related to the student’s career path.TWC Elective: Any TWC 300/400 course will fulfill this area, however an internship (TWC484) or supervised work experience is strongly recommended.	
TWC 44X, Genre Course	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Related Area Course	3	<input checked="" type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
TWC Elective	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SEVEN: 91 105 CREDIT HOURS						
TWC 411, 421, or 431	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Related area: In consultation with an advisor; suggested courses use the following prefixes: GIT, ENG, COM, or any other course related to the student’s career path.TWC Elective: Any TWC 300/400 course will fulfill this area, however an internship (TWC484) or supervised work experience is strongly recommended.	
TWC 44X Genre Course	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Related Area Course	3	<input checked="" type="checkbox"/>		Grade of C		
TWC Elective	3	<input checked="" type="checkbox"/>		Grade of C		
Upper Division Elective	3	<input checked="" type="checkbox"/>				
TERM EIGHT: 106 120 CREDIT HOURS						
TWC 411, 421, or 431	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none">Related area: In consultation with an advisor; suggested courses use the following prefixes: GIT, ENG, COM, or any other course related to the student’s career path.TWC Elective: Any TWC 300/400 course will fulfill this area, however an internship (TWC484) or supervised work experience is strongly recommended.	
TWC 490 Capstone	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Related Area Course	3	<input checked="" type="checkbox"/>		Grade of C		
Elective	3	<input type="checkbox"/>				
TWC Elective	3	<input checked="" type="checkbox"/>		Grade of C		

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 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes: