Waubonsee Community College       2024-2025         Associate in Engineering Science (AES) - 61 hours	emphasis	Hrs 3 3 4 3 3 4 3 3 4 4 3 4 4 3	Southern Illinois University Carbon BS Mechanical Engineering (ME) - 12 University Core Curriculum (UCC) UNIV 101 CMST 101 ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES HUMANITIES CHEM 200 - and- 201 LIFE SCIENCE FINE ARTS BIOL 202 MULTICULTURAL	26 hrs	Hrs NA 3 T T T T T NA T 3 T 2 3
ENG 101 First-Year Comp ENG 102 First-Year Comp MTH 131 Calculus w/Ana ECN 201 Prin of Microecc IAI Humanities* CHM 121 General Chemis IAI Fine Arts* *One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equ PHY 221 General Physics	emphasis	Hrs 3 3 4 3 3 4 3 3 4 3 3 3	University Core Curriculum (UCC) UNIV 101 CMST 101 ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Capstone Option - 30 hrs         Saluki Success         Intro to Oral Communication         English Composition I         English Composition II         Calculus I         Intro to Microeconomics         See SIUC Transfer Equivalency Guide         Intro to Chemical Principles w/Lab         See SIUC Transfer Equivalency Guide	NA 3 T T T T 3 T NA T 3 T 2
ENG 102       First-Year Comp         MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         IAI Fine Arts*       IAI Fine Arts*         *One course must have a non-Western -or- diversity       Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 230       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equip         PHY 221       General Physics	emphasis	Hrs 3 3 4 3 3 4 3 4 3 4 3 3	UNIV 101 CMST 101 ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Saluki Success         Intro to Oral Communication         English Composition I         English Composition II         Calculus I         Intro to Microeconomics         See SIUC Transfer Equivalency Guide         Intro to Chemical Principles w/Lab         See SIUC Transfer Equivalency Guide	NA 3 T T T 3 T NA T 3 T 2
ENG 102       First-Year Comp         MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         *One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 230       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equilibrical Equilibrical Equilibrical Physics	emphasis	3 3 4 3 3 4 3 4 3	CMST 101 ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Intro to Oral Communication English Composition I English Composition II Calculus I Intro to Microeconomics See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	NA 3 T T T T 3 T NA T 3 T 2
ENG 102       First-Year Comp         MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         *One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 230       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equilibrical Equilibrical Equilibrical Physics	emphasis	3 3 4 3 3 4 4 4 3	CMST 101 ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Intro to Oral Communication English Composition I English Composition II Calculus I Intro to Microeconomics See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	3 T T T 3 T NA T 3 T 2
ENG 102       First-Year Comp         MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         *One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 230       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equilibrical Equilibrical Equilibrical Physics	emphasis	3 3 4 3 3 4 4 3	ENGL 101 ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	English Composition I English Composition II Calculus I Intro to Microeconomics See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	T T T 3 T NA T 3 T 2
ENG 102       First-Year Comp         MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         *One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 230       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equilibrical Equilibrical Equilibrical Physics	emphasis	3 4 3 3 4 4 3	ENGL 102 MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	English Composition II Calculus I Intro to Microeconomics See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	T T 3 T NA T 3 T 2
MTH 131       Calculus w/Ana         ECN 201       Prin of Microecc         IAI Humanities*       IAI Humanities*         CHM 121       General Chemis         IAI Fine Arts*       IAI Fine Arts*         *One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 240       Differential Equil         PHY 221       General Physics	lytic Geometry I onomics stry emphasis	4 3 3 4 3	MATH 150 ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Calculus I         Intro to Microeconomics         See SIUC Transfer Equivalency Guide         Intro to Chemical Principles w/Lab         See SIUC Transfer Equivalency Guide	T 3 T NA T 3 T 2
ECN 201 Prin of Microecc IAI Humanities* CHM 121 General Chemis IAI Fine Arts* IAI Fine Arts* *One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equ PHY 221 General Physics	emphasis	3 3 4 3	ECON 240 SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Intro to Microeconomics See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	T 3 NA T 3 T 2
IAI Humanities*         IAI Humanities*         CHM 121       General Chemis         IAI Fine Arts*         'One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 240       Differential Equa         PHY 221       General Physics	stry emphasis	3 4 3	SOCIAL SCIENCE HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	See SIUC Transfer Equivalency Guide Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	3 T NA T 3 T 2
CHM 121 General Chemis IAI Fine Arts* Arts* *One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 233 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics	stry emphasis	3 4 3	HUMANITIES HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	T   NA   T   3   T   2
CHM 121 General Chemis IAI Fine Arts* Arts* *One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 233 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics	stry emphasis	4	HUMANITIES CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	Intro to Chemical Principles w/Lab See SIUC Transfer Equivalency Guide	NA T 3 T 2
*One course must have a non-Western -or- diversity         Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 240       Differential Equal         PHY 221       General Physics	emphasis	4 3	CHEM 200 -and- 201 LIFE SCIENCE FINE ARTS BIOL 202	See SIUC Transfer Equivalency Guide	T 3   T 2
*One course must have a non-Western -or- diversity  Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics	emphasis	3	LIFE SCIENCE FINE ARTS BIOL 202	See SIUC Transfer Equivalency Guide	3   T 2
*One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics		3	FINE ARTS BIOL 202	See SIUC Transfer Equivalency Guide	Т 2
*One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics			BIOL 202		2
*One course must have a non-Western -or- diversity Program Requirements EGR 101 Engineering Gra CHM 122 (elective) Chemistry/Qual CIS 115 Intro to Program EGR 220 Analytical Mech EGR 230 Analytical Mech MTH 132 Calculus w/Ana MTH 240 Differential Equa PHY 221 General Physics			BIOL 202		
Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equa         PHY 221       General Physics			-		
Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equit         PHY 221       General Physics					
Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equit         PHY 221       General Physics					14
Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equit         PHY 221       General Physics					<u> </u>
Program Requirements         EGR 101       Engineering Gra         CHM 122 (elective)       Chemistry/Qual         CIS 115       Intro to Program         EGR 220       Analytical Mech         EGR 230       Analytical Mech         MTH 132       Calculus w/Ana         MTH 233       Calculus w/Ana         MTH 240       Differential Equit         PHY 221       General Physics					
EGR 101Engineering GraCHM 122 (elective)Chemistry/QualCIS 115Intro to ProgramEGR 220Analytical MechEGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EqualPHY 221General Physics					
EGR 101Engineering GraCHM 122 (elective)Chemistry/QualCIS 115Intro to ProgramEGR 220Analytical MechEGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EqualPHY 221General Physics			Program Requirements		
CHM 122 (elective)Chemistry/QualCIS 115Intro to ProgramEGR 220Analytical MechEGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EqualPHY 221General Physics	aphics	4		s not articulated will be used to satisfy general elective credit	L
CIS 115Intro to ProgramEGR 220Analytical MechEGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EquaPHY 221General Physics	itative Analysis		CHEM 210 -and- 211	General & Inorganic Chemistry w/Lab	Т
EGR 220Analytical MechEGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EquaPHY 221General Physics			ITEC 209 (elective)	Intro to Programming	T T
EGR 230Analytical MechMTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EquaPHY 221General Physics			ENGR 250	Statics	T T
MTH 132Calculus w/AnaMTH 233Calculus w/AnaMTH 240Differential EquaPHY 221General Physics		-	ENGR 261	Dynamics	
MTH 233     Calculus w/Ana       MTH 240     Differential Equa       PHY 221     General Physics			MATH 250	Calculus II	T
MTH 240 Differential Equa PHY 221 General Physics			MATH 250 MATH 251	Calculus II	
PHY 221 General Physics					
			MATH 305	Intro to Differential Equations	T
PHY 222 General Physics			PHYS 205A -and- 255A	University Physics w/Lab	T
Image: Sector of the sector	<u>، اا د</u>	_	PHYS 205B -and- 255B	University Physics w/Lab	Т
Image: sector		38			
Image: Sector of the sector			Select 1 Course:	ENGR 222 -or- 296 -or- ME 222	2
Image: state			ENGR 350A	Mechanics of Materials	3
Image: state			ENGR 351	Numerical Methods in Engineering	3
Image: state			ENGR 335	Electric Circuits I	3
Image: Sector			ENGR 370A	Fluid Mechanics	3
			ME 102	Computer-Aided Engineering Drawing	2
			ME 300	Engineering Thermodynamics I	3
			ME 302	Engineering Heat Transfer	3
			ME 309	Mechanical Analysis & Design	3
			ME 312	Materials Science Fundamentals	3
			ME 336	System Dynamics & Control	3
			ME 401	Thermal Measurements Lab	1
			ME 407	Measurements & Instrumentation	2
			ME 411	Manufacturing Methods for Engineering Materials	3
			ME 475	Machine Design I	3
			_ME 475 ME 495A	Machine Design I Mechanical Engineering Design	
			-	Mechanical Engineering Design	3
			_ME 495B		3
			Mechanical Engineering Electives	At least 12 credit hours must be from 400-level ME courses and 3 credit hours	15
			1	may be from IMAE 470A or a 400-level course used for a Math minor.	61
Total semester hrs completed w/AES degree:		61	Total semester hrs completed w/B	S degree:	75
		-	Total semester hrs to BS degree:		136
Degree Plan updated on 9/10/24 by SG					