Associate of Applied Science

The associate of applied science degree from JCCC

- is designed with an emphasis in a specific career program.
- requires completion of a minimum of 60 college-level credit hours, not to exceed 68 credit hours, within specified course distribution subgroups, including areas of emphasis, with a 2.0 or higher GPA.
- the 68-credit-hour maximum shall not apply to any programs having external accreditation or industry requirements that exceed the 68-credit-hour limit

The credit hours necessary to complete the associate of applied science degree include 15 credits of general education requirements plus the courses listed for the specific career program. At a minimum, the distribution must include:

General Education Area

Communications Associate of Applied Science

These courses fulfill the communications requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific degree for a list of all requirements.

Communications

ENGL 121

Composition I*

3

E	:NGL 121	Composition I*	3
li	res a communications elective, choose three hours from the following:		
Е	NGL 122	Composition II*	3
E	NGL 123	Technical Writing I*	3
E	NGL 140	Writing for Interactive Media*	3
Е	BUS 150	Business Communications*	3
S	SPD 120	Interpersonal Communication	3
S	SPD 121	Public Speaking	3
S	SPD 125	Personal Communication	3
S	SPD 180	Intercultural Communication	3
T	otal Program Hours:		3

Humanities Associate of Applied Science 3

These courses fulfill the humanities requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific degree for a list of all requirements.

One course from any of the following categories may count toward the three required hours.

A. Literature/Theater		
ENGL 130	Introduction to Literature*	3
ENGL 215	U.S. Latino and Latina Literature*	3
ENGL 217	Literature by Women*	3
ENGL 227	Introduction to Poetry*	3
ENGL 230	Introduction to Fiction*	3
ENIOL COE	Description 1 November 2	_

ENGL 235	Drama as Literature*	3
ENGL 246	American Literature I*	3
ENGL 247	American Literature II*	3
ENGL 250	World Masterpieces*	3
ENGL 254	Masterpieces of the Cinema*	3
THEA 120	Introduction to Theater	3
B. Foreign Language		

TILA 120	introduction to meater	J	
B. Foreign Language			
FL 178	Intermediate Russian I*	3	
FL 182	Intermediate Japanese I*	5	
FL 192	Intermediate Chinese I*	3	
FL 193	Intermediate Chinese II*	3	
FL 195	Intermediate Arabic I*	3	
FL 220	Intermediate German I*	3	
FL 221	Intermediate German II*	3	

FL 230	Intermediate Spanish I*	3
FL 231	Intermediate Spanish II*	3
FL 240	Intermediate French I*	3
FL 241	Intermediate French II*	3
C. History		
HIST 125	Western Civilization: Ancient World to the Renaissance	3
HIST 126	Western Civilization: Scientific Revolution to the Modern Age	3
HIST 128	Medieval History	3
HIST 129	Early Modern Europe 1500-1789	3
HIST 130	European History Since 1789	3
HIST 135	Eastern Civilization	3
HIST 137	African American Studies	3
HIST 140	U.S. History to 1877	3
HIST 141	U.S. History Since 1877	3
HIST 151	World History I: Traditional World	3
HIST 152	World History II: Modern World	3
HIST 160	Modern Russian History	3
HIST 162	Modern Latin America	3
D. Humanities		
ARTH 180	Art History: Ancient to Renaissance	3
ARTH 182	Art History: Renaissance to Modern	3
ARTH 184	Art History: Twentieth Century	3
ARTH 188	History of Photography	3
HUM 122	Introduction to Humanities	3
HUM 145	Introduction to World Humanities I	3
HUM 146	Introduction to World Humanities II	3
HUM 155	Classical Mythology	3
HUM 156	Contemporary Approaches to World Mythology	3
HUM 165	Introduction to Chinese Culture	3
HUM 167	Introduction to Japanese Culture	3
JOUR 120	Mass Media and Society	3
MUS 121	Introduction to Music Listening	3
MUS 125	Introduction to Jazz Listening	3
MUS 126	Introduction to World Music	3
MUS 128	History of Rock and Roll Music	3
REL 120	Exploring World Religions	3
REL 125	Religions of the East	3
REL 126	Religions of the West	3
E. Philosophy		
PHIL 121	Introduction to Philosophy	3
PHIL 124	Logic and Critical Thinking	3
PHIL 128	Environmental Ethics	3
PHIL 143	Ethics	3
PHIL 154	History of Ancient Philosophy	3
PHIL 176	Philosophy of Religion	3
Total Program Hours		3
Social Science/Economics As	sociate of Applied Science	3
T		

These courses fulfill the social science/economics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific degree for a list of all requirements.

One course from any of the following categories may count toward the three required hours.

A. Anthropology

ANTH 125 Cultural Anthropology 3

ANITH 406	Dhysical Anthropology	_
ANTH 126 ANTH 130	Physical Anthropology World Cultures	3
ANTH 142	World Prehistory	3
ANTH 142 ANTH 165	Linguistic Anthropology	3
B. Economics	Linguistic Antinopology	3
ECON 132	Survey of Economics	3
ECON 230	Principles of Macroeconomics	3
ECON 231	Principles of Microeconomics	3
C. Political Science	1 Indiples of Microcontoffics	3
POLS 122	Political Science	3
POLS 124	American National Government	3
POLS 126	State and Local Government	3
POLS 132	Introduction to Comparative Government	3
POLS 135	International Relations	3
POLS 175	Environmental Policy and Law	3
POLS 192	Political Theory	3
D. Psychology	,	
PSYC 121	Applied Psychology	3
PSYC 130	Introduction to Psychology	3
E. Sociology		
SOC 122	Introduction to Sociology	3
SOC 125	Social Problems	3
SOC 131	Sociology of Families	3
F. Gender and Ethnic Studies		
WGS 201	Global Women's Studies	3
Total Program Hours		3
Science and/or Mathematics Associ	ate of Applied Science	3
Science and/or Mathematics Associ		3
These courses fulfill the science and	ate of Applied Science I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d	
These courses fulfill the science and for a list of all requirements.		
These courses fulfill the science and for a list of all requirements. A. Mathematics	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d	egree
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra*	egree 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra* Geometry*	egree 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra* Geometry* Business Mathematics*	agree 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra* Geometry* Business Mathematics* Technical Mathematics I*	agree 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 120 MATH 130 MATH 131	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra* Geometry* Business Mathematics* Technical Mathematics I* Technical Mathematics II*	3 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165	I mathematics requirements for the Associate of Applied Science (AAS) degree. Please refer to your specific d Intermediate Algebra* Geometry* Business Mathematics* Technical Mathematics I* Technical Mathematics II* Finite Mathematics*	3 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra*	3 3 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry*	3 3 3 3 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 173	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus*	3 3 3 3 3 3 5
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 181 MATH 231	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus I*	3 3 3 3 3 3 5 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 175 MATH 175 MATH 181 MATH 231 MATH 232	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Business and Applied Calculus II*	3 3 3 3 3 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 181 MATH 231 MATH 232 MATH 241	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Calculus I*	3 3 3 3 3 5 3 3 5 5
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 173 MATH 175 MATH 181 MATH 231 MATH 232 MATH 241 MATH 242	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Calculus II* Calculus III*	3 3 3 3 3 3 3 3 5 5 5
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 181 MATH 231 MATH 231 MATH 241 MATH 242 MATH 243	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Calculus II* Calculus III* Calculus III*	agree 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 175 MATH 175 MATH 181 MATH 231 MATH 231 MATH 241 MATH 242 MATH 243 MATH 243 MATH 254	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Calculus II* Calculus III*	3 3 3 3 3 3 3 3 5 5 5
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 173 MATH 175 MATH 175 MATH 181 MATH 231 MATH 231 MATH 244 MATH 244 MATH 243 MATH 254 B. Life Science	Intermediate Algebra* Geometry* Business Mathematics! Technical Mathematics! Technical Mathematics! Technical Mathematics! Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus I!* Calculus I!* Calculus II!* Calculus III* Differential Equations*	3 3 3 3 3 3 3 3 5 5 5 4
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 181 MATH 231 MATH 231 MATH 242 MATH 244 MATH 245 B. Life Science BIOL 121	Intermediate Algebra* Geometry* Business Mathematics! Technical Mathematics! Technical Mathematics! Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus I!* Calculus I!* Calculus II!* Calculus III* Differential Equations*	agree 3 3 3 3 3 3 3 3 5 5 5 4 4 4
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 175 MATH 181 MATH 231 MATH 231 MATH 242 MATH 244 MATH 244 MATH 245 B. Life Science BIOL 121 BIOL 124	Intermediate Algebra* Geometry* Business Mathematics I* Technical Mathematics II* Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus II* Calculus II* Calculus II* Calculus II* Calculus III* Differential Equations* Introductory Biology for Non-Majors Oceanus: Essentials of Oceanography	agree 3 3 3 3 3 3 3 3 3 5 5 5 4 4 4 3
These courses fulfill the science and for a list of all requirements. A. Mathematics MATH 116 MATH 118 MATH 120 MATH 130 MATH 131 MATH 165 MATH 171 MATH 172 MATH 172 MATH 173 MATH 175 MATH 181 MATH 231 MATH 231 MATH 242 MATH 244 MATH 245 B. Life Science BIOL 121	Intermediate Algebra* Geometry* Business Mathematics! Technical Mathematics! Technical Mathematics! Finite Mathematics* College Algebra* Trigonometry* Precalculus* Discrete Mathematics and its Applications* Statistics* Business and Applied Calculus I!* Calculus I!* Calculus II!* Calculus III* Differential Equations*	agree 3 3 3 3 3 3 3 3 5 5 5 4 4 4

4 Associate of Applied Science

Electrosis Electrosis 1	BIOL 130	Environmental Science	3
BIOL 134 Principles of Sustainability 3 BIOL 135 Principles of Cell and Molecular Biology 4 BIOL 140 Human Anatomy 4 BIOL 144 Human Anatomy and Physiology* 5 BIOL 150 Biology of Organisms* 5 BIOL 225 Human Physiology* 4 BIOL 230 Microbiology* 2 BIOL 231 Microbiology Lab* 2 C. Physical Science 2 ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Leb* 4 CHEM 125 General Chemistry I Leb* 1 CHEM 131 General Chemistry I Leb* 1 CHEM 132 General Chemistry II Leb* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 144 Physical Geography <t< td=""><td></td><td></td><td></td></t<>			
BIOL 135 Principles of Cell and Molecular Biology 4 BIOL 140 Human Anatomy 4 BIOL 1444 Human Anatomy and Physiology* 5 BIOL 255 Biology of Organisms* 5 BIOL 230 Microbiology* 3 BIOL 230 Microbiology Lab* 2 C. Physical Science C ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 121 Principles of Chemistry* 5 CHEM 122 Principles of Chemistry I Lecture* 4 CHEM 125 General Chemistry I Lecture* 4 CHEM 126 General Chemistry II Lecture* 4 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Leb* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geo			
BIOL 140 Human Anatomy 4 BIOL 144 Human Anatomy and Physiology* 5 BIOL 150 Biology of Organisms* 5 BIOL 225 Human Physiology* 4 BIOL 230 Microbiology* 3 BIOL 231 Microbiology Lab* 2 C. Physical Science ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Leb* 1 CHEM 131 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 5 PHYS 131 College Physics II* 5 <td></td> <td></td> <td></td>			
BIOL 144 Human Anatomy and Physiology* 5 BIOL 150 Biology of Organisms* 5 BIOL 225 Human Physiology* 4 BIOL 230 Microbiology* 3 BIOL 231 Microbiology Lab* 2 C. Physical Science ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Lecture* 4 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 141 Physical Geography 5 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 5 PHYS 131 College Physics I*			
BIOL 150 Biology of Organisms* 5 BIOL 225 Human Physiology* 4 BIOL 230 Microbiology Lab* 2 C. Physical Science V ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 4 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Lab* 1 CHEM 131 General Chemistry II Lab* 1 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 131 College Physics I* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II*			
BIOL 225 Human Physiology* 4 BIOL 230 Microbiology* 3 BIOL 231 Microbiology Lab* 2 C. Physical Science ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Leture* 4 CHEM 131 General Chemistry II Lab* 1 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 131 College Physics II* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 </td <td></td> <td></td> <td></td>			
BIOL 230 Microbiology* 3 BIOL 231 Microbiology Lab* 2 C. Physical Science 2 ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 122 Chemistry in Society* 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry I Leb* 1 CHEM 131 General Chemistry II Lab* 1 CHEM 132 General Chemistry II Lab* 1 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 141 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics II* 5 PHYS 220 Engineering Physics II* 5			
BIOL 231 Microbiology Lab* 2 C. Physical Science ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Lecture* 4 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours <			
C. Physical Science ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Leb* 1 CHEM 131 General Chemistry II Leb* 1 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 3 additional credit hours to be selected from one of the above categories 3			
ASTR 120 Fundamentals of Astronomy 3 ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry I Lab* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3		MICTODIOlogy Lab	2
ASTR 122 Astronomy 4 CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry I Lecture* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 130 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 5 GEOS 141 Physical Geography 1 GEOS 145 World Regional Geography 3 GEOS 145 World Regional Geography 3 COllege Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PHYS 120 Physical Science 1 Total Program Hours 1 3 additional credit hours to be selected from one of the above categories 3	-	Fundamentals of Astronomy	2
CHEM 120 Chemistry in Society* 4 CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry I Lab* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3		· · · · · · · · · · · · · · · · · · ·	
CHEM 122 Principles of Chemistry* 5 CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry II Lab* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3			
CHEM 124 General Chemistry I Lecture* 4 CHEM 125 General Chemistry I Lab* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3			
CHEM 125 General Chemistry I Lab* 1 CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
CHEM 131 General Chemistry II Lecture* 4 CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics II* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3			
CHEM 132 General Chemistry II Lab* 1 CHEM 140 Principles of Organic Biological Chemistry* 5 GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3			
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GEOS 130 General Geology 5 GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
GEOS 140 Physical Geography 3 GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
GEOS 141 Physical Geography Lab* 2 GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
GEOS 145 World Regional Geography 3 PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
PHYS 130 College Physics I* 5 PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3			
PHYS 131 College Physics II* 5 PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3	GEOS 145		3
PHYS 220 Engineering Physics I* 5 PHYS 221 Engineering Physics II* 5 PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3	PHYS 130	College Physics I*	5
PHYS 221 Engineering Physics II* PSCI 120 Physical Science 4 Total Program Hours 3 additional credit hours to be selected from one of the above categories 3			5
PSCI 120 Physical Science 4 Total Program Hours 3 3 additional credit hours to be selected from one of the above categories 3	PHYS 220	Engineering Physics I*	5
Total Program Hours 3 additional credit hours to be selected from one of the above categories 3	PHYS 221	Engineering Physics II*	5
3 additional credit hours to be selected from one of the above categories 3	PSCI 120	Physical Science	4
<u> </u>	Total Program Hours		3
Total Hours: 15	3 additional credit hours to	be selected from one of the above categories	3
	Total Hours:		15

^{*}Course has prerequisites