BS, Mathematics, Business, 260D Appalachian State University College of Arts and Sciences Department of Mathematical Sciences Program of Study 2016-2017

## Universal General Education Transfer Component (UGETC)

	Prefix           ENG 111         Expo           ENG 112         Argu           Total Credit Hours Required           Humanities/Fine Arts (6 SCH)           Prefix           ART 111         Art 4           ART 112         Art 1           ART 113         Art 4           ART 114         Art 1           ART 115         Art 1           COM 231         Public           ENG 231         Arme           ENG 232         Arme           ENG 241         Britis           Eng 242         Britis           MUS 110         Mussi           MUS 112         Intro           PHI 215         Philo           PHI 215         Princ           ECO 251         Princ           ECO 252         Princ           ECO 252         Princ           HIS 111         Worl           H	Course Name spository Writing gument-Based Research Course Name t Appreciation t History Survey I t History Survey I tiblic Speaking merican Literature I merican Literature I merican Literature II usic Appreciation troduction to Jazz nilosophical Issues troduction to Ethics SCH)	3 N 3 E 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Ione ING 111 Pre-requisites Ione Ione Ione IONE ING 112, 113 or 114 ING 112, 113 or 114 ING 112, 113 or 114 ING 112, 113 or 114 ING 112, 113 or 114 IONE	University Course Equivalent RC 1000 RC 2001 Students will select two courses from at least two different disciplines: University Course Equivalent ART 2011 ART 2030 ART 2030 COM 2101 ENG 2350 ENG 2350 ENG 2050 ENG 2050 MUS 2011	3 3 6	Required Required		
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net of a strain of a stra	Prefix           ART 111         Art A           ART 111         Art A           ART 111         Art H           ART 112         Art H           ART 115         Art H           COM 231         Public           ENG 231         Arthe           ENG 231         Public           ENG 232         Arme           ENG 241         Britis           MUS 110         Music           MUS 112         Intro           PHI 215         Philo           PHI 240         Intro           Social /Behavioral Science (6 SG           Prefix         ECO 251           ECO 252         Princ           ECO 252         Princ           ECO 252         Princ           HIS 111         Worl           HIS 131         Arme           HIS 132         Arme           PSV 150         Gene           POL 120         Arme	Course Name t Appreciation t History Survey I t History Survey I tibitor Speaking merican Literature I merican Literature II titish Literature II usic Appreciation troduction to Jazz iillosophical Issues troduction to Ethics SCH)	3 N 3 N 3 N 3 E 3 E 3 E 3 C 3 N 3 N 3 N 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C	lone Jone Jone NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 JONE 112, 113 or 114 Jone NG 111	University Course Equivalent           ART 2011           ART 2030           ART 2130           COM 2101           ENG 2350           ENG 2350           ENG 2050           ENG 2050           MUS 2011	Credit Hours 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Required <u>or</u> Preferred by Major	Notes	
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Art 1130Art 11	ART 114         Art H           ART 115         Art H           COM 231         Public           ENG 231         Arthe           ENG 232         Arne           ENG 232         Arne           ENG 232         Arne           ENG 232         Britis           MUS 110         Musi           MUS 110         Musi           PHI 215         Philo           PHI 240         Intro           Total Credit Hours Required         Social /Behavioral Science (6 St           Prefix         ECO 251         Princ           ECO 252         Princ         HIS 111         Worl           HIS 111         Worl         HIS 131         Arme           HIS 132         Arme         PSY 150         Gene           POL 120         Arme         Contal 200         Arme	t History Survey I t History Survey II ublic Speaking merican Literature I merican Literature II titish Literature II usic Appreciation troduction to Jazz nilosophical Issues troduction to Ethics <b>5 SCH</b>	3 N 3 N 3 R 3 E 3 E 3 E 3 R 3 N 3 N 3 R 3 E 3 R 3 R 3 R 3 R	lone lone NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 lone lone NG 111	ART 2030 ART 2130 COM 2101 ENG 2350 ENG 2350 ENG 2350 ENG 2050 ENG 2050 MUS 2011	3 3 3 3 3 3 3 3 3 3 3 3 3			
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Bit	ENG 232         Ame           ENG 241         Britis           Eng 242         Britis           MUS 110         Musi           MUS 112         Intro           PHI 215         Philo           PHI 240         Intro <b>Social /Behavioral Science (6 St</b> Perfix         ECO 251           ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 113         Ame           HIS 132         Ame           PSV 150         Gene           POL 120         Ame	merican Literature II itish Literature I usic Appreciation troduction to Jazz nilosophical Issues troduction to Ethics 5 SCH)	3 E 3 E 3 M 3 M 3 M 3 M 3 E 3 E	NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 NG 112, 113 or 114 Jone Jone NG 111	ENG 2350 ENG 2050 ENG 2050 ENG 2050 MUS 2011	3 3 3 3			
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ing 242Bitabi UterationalImp Bits 131 13 or 11Imp Bits 2301Imp Bits 13Imp Bits 130Imp	Eng 242         Britis           MUS 110         Musi           MUS 112         Intro           PHI 215         Philo           PHI 215         Philo           PHI 215         Philo           Social /Behavioral Science (6 St         Prefix           ECO 251         Prino           HIS 111         Worl           HIS 112         Worl           HIS 131         Arme           HIS 132         Arme           PSV 150         Gene           POL 120         Arme	itish Literature II usic Appreciation troduction to Jazz iliosophical Issues troduction to Ethics s SCH)	3 E 3 N 3 R 3 E 3 E 3 E	NG 112, 113 or 114 Ione Ione NG 111	ENG 2050 MUS 2011	3			
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Mix 312     Mix 3014     Mix	MUS 112     Intro       PH1 215     Phili       PH1 240     Intro       Total Credit Hours Required       Social /Behavioral Science (6 St       Prefix       EC0 251     Princ       EC0 252     Prinn       HIS 111     Worl       HIS 112     Worl       HIS 131     Ame       HIS 132     Ame       PSV 150     Gene       POL 120     Ame	troduction to Jazz iilosophical Issues troduction to Ethics 5 SCH)	3 E 3 E	NG 111	MUS 2014	3			
pin 2.0         Introduction to fibric         []         <	PHI 240     Intro       Total Credit Hours Required       Social /Behavioral Science (6 St       Prefix       EC0 251     Princ       HIS 111     Worl       HIS 112     Worl       HIS 131     Ame       HIS 132     Ame       PSY 150     Gene       POL 120     Ame	troduction to Ethics	3 E			3			
pin 2.0         Introduction to fibric         []         <	PHI 240     Intro       Total Credit Hours Required       Social /Behavioral Science (6 Sd       Prefix       EC0 251     Princ       EC0 252     Princ       HIS 111     Worl       HIS 112     Worl       HIS 113     Ame       HIS 132     Ame       PSY 150     Gene       POL 120     Ame	troduction to Ethics	3 E		PHL Elective	3			
Table (Feedile Hours Required         6         9           Social //Rehavioral Science (6 SCH)         Students will select use courses from at least will select use courses from the following:         Required at Preferred by Major         Notes           CCO 230         Mone (Course Name)         10         None         High 120         None (Course Name)         10         None         High 120         High 12	Total Credit Hours Required       Social /Behavioral Science (6 SV       Prefix     Prefix       ECO 251     Princ       HIS 111     Worl       HIS 112     Worl       HIS 131     Ame       HIS 132     Ame       PSY 150     Gene       POL 120     Ame	5 SCH)				3			
Social /Behavioral Science (6 SCH)         Students will select two courses from at least two different disciplines:         Cerefit Hours         Required or Preferred by Major         Notes           C0 251         Principles of Microsconomics         3 None         ICO 2030         3             EC0 252         Principles of Microsconomics         3 None         ICO 2030         3             EC0 252         Principles of Microsconomics         3 None         ICO 2040         3             EC0 252         Principles of Microsconomics         3 None         ICO 2040         3             B111         World Cultizations I         1 None         His 102         3              B111         American Nictory I         3 None         His 102         3	Social /Behavioral Science (6 Sf           Prefix           ECO 251         Princ           ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 131         Ame           HIS 132         Ame           PSY 150         Gene           POL 120         Ame		•			9	1	1	
Prefix         Course Name         Credit Hours         Required gr Preferred by Major         Notes           150 251         Principle of Macroeconomics         3         None         EC0 2030         3         3         1           150 252         Principle of Macroeconomics         3         None         EC0 2030         3         3         1         1           150 252         Principle of Macroeconomics         3         None         His 110         3         1	Prefix           ECO 251         Princ           ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 131         Ame           HIS 132         Ame           PSY 150         Gene           POL 120         Ame					-			
ICC 251         Principles of Microeconomics         3         None         ECC 2030         1 <td>ECO 251         Princ           ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 131         Arme           HIS 132         Arme           PSY 150         Gene           POL 120         Arme</td> <td>Course Name</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ECO 251         Princ           ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 131         Arme           HIS 132         Arme           PSY 150         Gene           POL 120         Arme	Course Name							
ECO 252         Principles of Macrosonomics         Isone         Field Color	ECO 252         Princ           HIS 111         Worl           HIS 112         Worl           HIS 131         Ame           PSY 150         Gene           POL 120         Ame		Credit Hours	Pre-requisites		Credit Hours	Required or Preferred by Major	Notes	
His 111         World Civilizations I         I         None         His 101         I <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<>	HIS 111 Worl HIS 112 Worl HIS 131 Ame HIS 132 Ame PSY 150 Gene POL 120 Ame					3			
bit 12         World Cvaluzations II         I         S120         Mone         H 5120         American History II         I         S120         American History II         I         S120         American History II         I         S120         I <thi< th="">         I         <thi< th="">         I</thi<></thi<>	HIS 112 Worl HIS 131 Ame HIS 132 Ame PSY 150 Gene POL 120 Ame	inciples of Macroeconomics				3			
his 131         American History I         I is 120         I is 120 <td>HIS 131         Ame           HIS 132         Ame           PSY 150         Gene           POL 120         Ame</td> <td>orld Civilizations I</td> <td>3 N</td> <td>lone</td> <td>His 1101</td> <td>3</td> <td></td> <td></td>	HIS 131         Ame           HIS 132         Ame           PSY 150         Gene           POL 120         Ame	orld Civilizations I	3 N	lone	His 1101	3			
http://line         Marican History II         Mail         None         History         Mail         <	HIS 132         Ame           PSY 150         Gene           POL 120         Ame	orld Civilizations II	3 N	lone	HIS 1102	3			
PY 150         General Psychology         Image         PY 1200         Second Seco	PSY 150 Gene POL 120 Ame	nerican History I	3 N	lone	HIS 1200	3			
P0.120         American Government         3         None         P5 100         3         Introduction to Sociology         3         None         SOC 1000         3         Introduction to Sociology         3         Introduction tegerelis by Sociology         1ntroduction tegere <td>POL 120 Ame</td> <td>nerican History II</td> <td>3 N</td> <td>lone</td> <td>HIS 1200</td> <td>3</td> <td></td> <td></td>	POL 120 Ame	nerican History II	3 N	lone	HIS 1200	3			
SDC 210         Introduction to Sociology         3         None         SOC 100         3         Col         Col           Total Credit Hours Required         6         5         5           Mathematics (8 SCH)         Sudents will select two course from the following:           Mathematics (8 SCH)         Sudents will select two course from the following:         Social Science (8 Science)         Social Science (8 Science) <t< td=""><td></td><td>eneral Psychology</td><td>3 N</td><td>lone</td><td>PSY 1200</td><td>3</td><td></td><td></td></t<>		eneral Psychology	3 N	lone	PSY 1200	3			
Total Credit Hours Required       6         Mathematics (8 SCH)       Students will select two course from the following:         Prefix       Course Name       Credit Hours       Pre-requisites       University Course Equivalent       Credit Hours       Required or Preferred by Major       Notes         MAT 171       Precalculus Algebra       4       None       MAT 1020       4       4          MAT 263       Brief Calculus       4       MAT 171       MAT 1025       4       4           MAT 273       Calculus I       4       MAT 172       MAT 1100       4       4           MAT 273       Calculus I       4       MAT 172       MAT 1110       4       4            MAT 273       Calculus I       4       MAT 172       MAT 1110       4       4	SOC 210 Intro	nerican Government	3 N	lone	P \$ 1100	3			
Mathematics (8 SCH)         Students will select two course from the following:           Prefix         Course Name         Credit Hours         Pre-requisites         University Course Equivalent         Credit Hours         Required or Preferred by Major         Notes           MAT 171         Precalculus Algebra         4         None         MAT 020         4             MAT 172         Precalculus Tigonometry         4         MAT 171         MAT 1025         4             NAT 263         Brief Calculus         4         MAT 171         MAT 1035         4  <	000110	troduction to Sociology	3 N	lone	SOC 1000	3			
Prefix         Course Name         Credit Hours         Pre-requisites         University Course Equivalent         Credit Hours         Required or Preferred by Major         Notes           MAT 171         Precalculus Algebra         4         None         MAT 1020         4         A           MAT 172         Precalculus Tigonometry         4         MAT 1025         4         A         A           MAT 263         Brief Calculus 1         4         MAT 171         MAT 1025         4         A         A           MAT 271         Calculus 1         4         MAT 172         MAT 1035         4         A         A         A           MAT 272         Calculus 1         4         MAT 172         MAT 1100         4         A         A         A           Total Credit Hours Required         4         MAT 172         MAT 1120         4         A         A         A           Total Credit Hours Required         4         MAT 122         MAT 1120         4         A         A         A           Total Credit Hours Required or Prefered by Mojo         None         S         S         None         None         None         None         None         None         None         None         None <td>Total Credit Hours Required</td> <td colspan="8">otal Credit Hours Required 6</td>	Total Credit Hours Required	otal Credit Hours Required 6							
Prefix         Course Name         Credit Hours         Pre-requisites         University Course Equivalent         Credit Hours         Required or Preferred by Major         Notes           MAT 171         Precalculus Algebra         4         None         MAT 1020         4         A         A           MAT 172         Precalculus Tigonometry         4         MAT 1020         4         A         A         A           MAT 263         Brief Calculus         4         MAT 171         MAT 1035         4         A	Astematics (8 SCH) Students will select two course from the following:								
MAT 171         Precalculus Algebra         4         None         MAT 1020         4         4         1000           MAT 172         Precalculus Trigonometry         4         MAT 101         MAT 1025         4         1		Course Norse	Creadia Liaura	Des esserialitas		Creedit Harris	Described on Dreferred by Mains	Natas	
MAT 172         Precalculus Trigonometry         4         MAT 171         MAT 1025         4         Inclusion         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Credit Hours</td><td>Required or Preferred by Major</td><td>Notes</td></t<>						Credit Hours	Required or Preferred by Major	Notes	
MAT 263         Brief Calculus         4         MAT 171         MAT 1035         4         A           MAT 271         Calculus I         4         MAT 172         MAT 1110         4         Required         Incomposition           MAT 272         Calculus I         4         MAT 271         MAT 1120         4         Required         Incomposition           Total Credit Hours Required         8         8         8         8         8         1		0				4			
MAT 271         Calculus I         4         MAT 172         MAT 110         4         Required         Required           MAT 272         Calculus II         4         MAT 271         MAT 1120         4         A         A         A           Total Credit Hours Required         8		<u> </u>				4			
MAT 272       Calculus II       4       MAT 271       MAT 1120       4       Add 1120         Tota Credit Hours Required       8         Students will select § SCH       8         Natural Sciences (§ SCH)       Students will select § SCH from the following courses:         Natural Sciences (§ SCH)       Students will select § SCH from the following courses:         Natural Sciences (§ SCH)       Cedit Hours       Pre-requisites       University Course Equivalent       Cedit Hours       Required or Preferred by Major       Notes         Natural Sciences (§ SCH)       Credit Hours       Pre-requisites       University Course Equivalent       Cedit Hours       Required or Preferred by Major       Notes         None       Stot 201/BIO 1204       4       Mone       BIO 120/BIO 1204       4       Matt 180 0112         BIO 111       General Biology I       4       None       Clear 1001/CHE 1100       4       Must take both BIO 111 and BIO 112         CHM 151       CHE 102/CHE 1102/CHE 1102       4						4	Description		
Total Credit Hours Required       8       8         Natural Sciences (8 SCH)       Students will select <u>8 SCH</u> from the following courses:         Prefix       Course Name       Credit Hours       Pre-requisites       University Course Equivalent       Credit Hours       Required or Preferred by Major       Notes         AST 155/151A       General Astronomy I and Iab I       4       None       BIO 1201/BIO 1204       4       Image: Course Name       Must take both BIO 111 and BIO 112         BIO 110       Principles of Biology I       4       None       BIO 1201/BIO 1204       4       Image: Course Name       Must take both BIO 111 and BIO 112         BIO 111       General Biology I       4       None       BIO 1202/BIO 1205       4       Image: Che II 101/CHE 1110       Image: Che II 101/CHE 1110       Must take both CHM 151 and CHM 151         CHM 152       General Chemistry I       4       None       GIV 1101       Image: Che II 101/CHE 1120       4       Image: Che II 101/CHE 1120       Must take both CHM 151 and CHM 152       General Chemistry II       4       None       GIV 1101       Must take both CHM 151 and CHM 152       General Chemistry II       4       None       Must take Course with Iab       Must take Course						4	Required		
Natural Sciences (8 SCH from the following courses:PrefixCourse NameCredit HoursPre-requisitesUniversity Course EquivalentCredit HoursRequired or Preferred by MajorNotesAST 151/151AGeneral Astronomy I and Iab I4NoneAST 10014446BIO 110Principles of Biology4NoneBIO 1201/BIO 120444666BIO 111General Biology I4NoneBIO 1202/BIO 12044466<		100103 11		//// 2/1	IVIA1 1120	4	1	L	
PrefixCourse NameCredit HoursPre-requisitesUniversity Course EquivalentCredit HoursRequired or Preferred by MajorNotesAST 151/151AGeneral Astronomy I and lab I4NoneAST 10014666BIO 110Principles of Biology4NoneBIO 1201/BIO 1204466 <t< td=""><td>Total credit nouis Reguired</td><td></td><td>8</td><td></td><td></td><td>8</td><td></td><td></td></t<>	Total credit nouis Reguired		8			8			
AST 151/151AGeneral Astronomy I and lab I4NoneAST 10014BIO 110Principles of Biology4NoneBIO 1201/BIO 12044BIO 111General Biology I4NoneBIO 1201/BIO 12044BIO 112General Biology II4BIO 111BIO 1202/BIO 120544CHM 151General Chemistry I4NoneCHE 1101/CHE 11104must take both BIO 111 and BIO 112CHM 152General Chemistry II4CHE 1102/CHE 11204must take both CHM 151 and CHM 15GEL 111Introduction Geology4NoneGLY 11014PHY 10/10AConceptual Physics and Lab4NonePHY 11004PHY 151College Physics I4MAT 171PHY 11034must take PHY 151 and PHY 152	Natural Sciences (8 SCH)								
BIO 110       Principles of Biology       4       None       BIO 1201/BIO 1204       4       A         BIO 111       General Biology I       4       None       BIO 1201/BIO 1204       4       Must take both BIO 111 and BIO 112         BIO 112       General Biology I       4       BIO 111       BIO 1202/BIO 1205       4       must take both BIO 111 and BIO 112         CHM 151       General Chemistry I       4       None       CHE 1101/CHE 1110       4       must take both CHM 151 and CHM 15         CHM 152       General Chemistry II       4       CHM 151       CHE 1102/CHE 1120       4       must take both CHM 151 and CHM 15         GEL 111       Introduction Geology       4       None       GLY 1101       4       must take course with lab         PHY 101/10A       Conceptual Physics and Lab       4       None       PHY 1103       4       must take PHY 151 and PHY 152	Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
BIO 111General Biology I4NoneBIO 120/BIO 12044must take both BIO 111 and BIO 112BIO 112General Biology II4BIO 111BIO 1202/BIO 12054must take both BIO 111 and BIO 112CHM 151General Chemistry I4NoneCHE 1101/CHE 11104must take both CHM 151 and CHM 151CHM 152General Chemistry II4CHM 151CHE 1102/CHE 11204must take both CHM 151 and CHM 151GEL 111Introduction Geology4NoneGLY 11014must take course with labPHY 10/110AConceptual Physics and Lab4NonePHY 11034must take PHY 151 and PHY 152	AST 151/151A Gene	eneral Astronomy I and lab I	4 N	lone	AST 1001	4			
BIO 112         General Biology II         4         BIO 111         BIO 1202/BIO 1205         4         must take both BIO 111 and BIO 112           CHM 151         General Chemistry I         4         None         CHE 1101/CHE 1110         4         must take both CHM 151 and CHM 15           CHM 152         General Chemistry II         4         CHE 1102/CHE 1120         4         must take both CHM 151 and CHM 15           GEL 111         Introduction Geology         4         None         GLY 1101         4           PHY 10/10A         Conceptual Physics and Lab         4         None         PHY 1100         4         must take Course with lab           PHY 151         College Physics I         4         MAT 171         PHY 1103         4         must take PHY 151 and PHY 152	BIO 110 Princ	inciples of Biology	4 N	lone	BIO 1201/BIO 1204	4			
CHM 151         General Chemistry I         4         None         CHE 1101/CHE 1110         4         must take both CHM 151 and CHM 15           CHM 152         General Chemistry II         4         CHM 151         CHE 1102/CHE 1120         4         must take both CHM 151 and CHM 15           GEL 111         Introduction Geology         4         None         GLY 1101         4         must take course with lab           PHY 10/10A         Conceptual Physics and Lab         4         None         PHY 1100         4         must take course with lab           PHY 151         College Physics I         4         MAT 171         PHY 103         4         must take PHY 151 and PHY 152	BIO 111 Gene	eneral Biology I	4 N	lone	BIO 1201/BIO 1204	4		must take both BIO 111 and BIO 112	
CHM 152         General Chemistry II         4         CHM 151         CHE 1102/CHE 1120         4         must take both CHM 151 and CHM 151           GEL 111         Introduction Geology         4         None         GLY 1101         4         4         Must take both CHM 151 and CHM 151           PHY 110/110A         Conceptual Physics and Lab         4         None         PHY 1100         4         must take course with lab           PHY 151         College Physics I         4         MAT 171         PHY 103         4         must take PHY 151 and PHY 152	BIO 112 Gene	eneral Biology II	4 B	810 111	BIO 1202/BIO 1205	4		must take both BIO 111 and BIO 112	
CHM 152         General Chemistry II         4         CHM 151         CHE 1102/CHE 1120         4         must take both CHM 151 and CHM 151           GEL 111         Introduction Geology         4         None         GLY 1101         4         4         Must take both CHM 151 and CHM 151           PHY 110/110A         Conceptual Physics and Lab         4         None         PHY 1100         4         Must take course with lab           PHY 151         College Physics I         4         MAT 171         PHY 103         4         Must take PHY 151 and PHY 152	CHM 151 Gene	eneral Chemistry I	4 N	lone	CHE 1101/CHE 1110	4		must take both CHM 151 and CHM 152	
GEL 111         Introduction Geology         4         None         GLY 1101         4         6         4         6         4         7 <th7< th=""> <th7< th="">         7</th7<></th7<>		eneral Chemistry II	4 C	CHM 151	CHE 1102/CHE 1120	4		must take both CHM 151 and CHM 152	
PHY 110/110A         Conceptual Physics and Lab         4         None         PHY 1100         4         must take course with lab           PHY 151         College Physics I         4         MAT 171         PHY 1103         4         must take PHY 151 and PHY 152		•	4 N	lone		4			
PHY 151         College Physics I         4         MAT 171         PHY 1103         4         must take PHY 151 and PHY 152		<u>,</u>				4		must take course with lab	
						4			
		· ·				4			
PHY 251 General Physics I 4 MAT 271 PHY 1150 4 must take PHY 251 and PHY 252		ollege Physics II				4	İ		
						1			
	Total Credit Hours Required	eneral Physics I				4	1	must take PHY 251 and PHY 252	

Total UGETC Hours

Additional General Education Courses (11-12 SHC): These courses must be classified as UGETC or general education within the CAA.							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
JGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
JGETC/GEC		3			3	UGETC/GEC	
JGETC/GEC		3			3	UGETC/GEC	
Total Credit Hours Required		13			13		
Total General Education Hours Required 47				47			

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
ACA 122	College Transfer Success	1	None		1	GEC	required by CAA
1AT 273	Calculus III	4	MAT 272	MAT 2130	4	GEC	Required by major
1AT 280	Linear Algebra	3	MAT 271	MAT 2240	3	Pre-Major	Required by major
1AT 285	Differential equations	3	MAT 272	MAT 3130	3	Pre-Major	Required by major
re-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	

## Other Required Hours (15-16 SCH)

## Total Semester Credit Hours in Program: 61

3rd - 4th Year	Plan: Mathematics, Business			
Semester	Course	Hours	Notes	
SU	MAT 2130 Calculus III	4	If taken at community college, start coursework in the fall	1
SU	MAT 2240 Linear Algebra	3	If taken at community college, start coursework in the fall	
SU	MAT 3130 Differential Equations	3	If taken at community college, start coursework in the fall	10
5	MAT 2110 Techniques of Proofs	3	Major Requirement	
5	MAT or STT Elective 1	3	Major Requirement	
5	Business Concentration course 1	3	Major Requirement	
5	Business Concentration course 2	3	Major Requirement	
5	Free Elective	3		15
6	STT 3850 Statistical Data Analysis	4	Major Requirement	1
5	MAT 3110 Intro to Modern Algebra	3	Writing in the Discipline	
6	Business Concentration course 3	3	Major Requirement	
6	MAT or Business Elective	3	Major Requirement	
6	MAT or STT Elective 2	3	Major Requirement	16
7	Business Concentration course 4	3	Major Requirement	
7	Business Concentration course 5	3	Major Requirement	
7	MAT or STT Elective 3	3	Major Requirement	
7	MAT or STT Elective 4	3	Major Requirement	
7	Free Elective	3		15
8	CAPSTONE Course	4	CAPSTONE	
8	Business Concentration course 6	3	Major Requirement	
8	Business Concentration course 7	3	Major Requirement	
8	Free Elective	3	Major Requirement	
8	Free Elective	3	Take enough free electives to reach 122 hours required for graduation	13
				61-69
				61 transfer hours
				122-130 hours for graduation

If Calculus II (MAT 272) is not offered at the community college attending, it is recommended that students transfer after completing 30 hours of coursework.
Many summer courses are offered. Students are encouraged to take summer classes, when available, to ensure completion of degree in a timely manner and so not to overload semesters.

- Residency Requirements: 31 hours must be from ASU

  - 18 hours in the major must be from ASU9 hours in the minor must be from ASU
  - Final 30 hours must be courses taken through ASU (includes internships, study abroad taken through ASU)