Biology (grid only)

Course Sequence:

Semester 1

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
CHEM 121 - College Chemistry I	CHEM 110 or Department Head approval and FNMT 118 or MATH 118	4 credits	Scientific Reasoning
CIS 103 - Computer Applications & Concepts		3 credits	Technological Competency
ENGL 101 - English Composition I		3 credits	Writing, Research, Info Lit 1
MATH 162 - Precalculus II	MATH 161 with a grade of "C" or better, or placement in MATH 162 or higher	3 credits	Quantitative Reasoning
SOC 101 - Introduction to Sociology		3 credits	Cultural Analysis & Interpretation

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
BIOL 123 - Principles of Biology I	CHEM 121 or CHEM 110 with a grade of "C" or better and high school biology or permission of the dept. head	4 credits	
CHEM 122 - College Chemistry II	CHEM 121 with a grade of "C" or better	4 credits	
ENGL 102 - The Research Paper	ENGL 101 with a grade of "C" or better	3 credits	Writing, Research, Info Lit 2
FREN 101 - Elementary French or		3 credits	

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
HUM 101 - Cultural Traditions: Ancient to the 13 th Century or SPAN 101 - Elementary Spanish			
PSYC 101 - Introduction to Psychology		3 credits	

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
BIOL 124 - Principles of Biology II	BIOL 123 with a grade of "C" or better	4 credits	
CHEM 221 - Organic Chemistry I	CHEM 122 with a grade of "C" or better	5 credits	
MATH 171 - Calculus <u>I</u>	MATH 162 or higher with a grade of "C" or better, or placement in MATH 171 or higher	4 credits	
BIOL 211 - Genetics or BIOL 225 - Ecology and Field Biology or BIOL 241 - Principles of Microbiology or BIOL 255 - Biotechnology I: Basic Laboratory Techniques in Biotechnology or BIOL 256 - Fermentation, Bioprocessing and Biomanufacturing or BIOL 281 - Biochemistry I or BTT 101 - Biomedical	For BIOL 241: BIOL 106, BIOL 107, BIOL 109, or BIOL 123 with a grade of "C" or better. For BIOL 255: FNMT 118 or higher with a "C" or better, or MATH 161 placement; CHEM 110 or CHEM 121; BIOL 123 or BIOL 241 with a "C" or better. For BIOL 256: BIOL 255 with a grade of "C" or better. For BIOL 281: BIOL 123 with a grade of "C" or better and CHEM 221 which may be taken concurrently. For BIOL 225: BIOL 107 or BIOL 124 with a grade of	4 credits	

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
Technician Training Practicum	"C" or better. For BTT 101: Permission of the Biomedical Technician Training Academic Coordinator and completion of the Orientation to Biomedical Technology		

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
CHEM 222 - Organic Chemistry II	CHEM 221 with a grade of "C" or better	5 credits	
ENGL 115 - Public Speaking	ENGL 101 which may be taken concurrently	3 credits	Oral Communication/Creative Expression
BIOL 211 - Genetics or BIOL 225 - Ecology and Field Biology or BIOL 241 - Principles of Microbiology or BIOL 255 - Biotechnology I: Basic Laboratory Techniques in Biotechnology or BIOL 256 - Fermentation, Bioprocessing and Biomanufacturing or BIOL 281 - Biochemistry I or BTT 101 - Biomedical Technician Training Practicum	For BIOL 241: BIOL 106, BIOL 107, BIOL 109, or BIOL 123 with a grade of "C" or better. For BIOL 255: FNMT 118 or higher with a "C" or better, or MATH 161 placement; CHEM 110 or CHEM 121; BIOL 123 or BIOL 241 with a "C" or better. For BIOL 256: BIOL 255 with a grade of "C" or better. For BIOL 281: BIOL 123 with a grade of "C" or better and CHEM 221 which may be taken concurrently. For BIOL 225: BIOL 107 or BIOL 124 with a grade of "C" or better. For BTT 101: Permission of the Biomedical Technician Training Academic Coordinator and completion	4 credits	

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
	of the Orientation to Biomedical Technology		
PHIL 101 - Introduction to Philosophy		3 credits	

Minimum Credits Needed to Graduate: 65

Courses and Completion Sequence:

Semester 1

Course Number and Name	Credits	Advisory Notes
CHEM 121 - College Chemistry I	4 credits	Fulfils major prerequisite; Must earn a grade of "C" or better to take CHEM 122. Within the major, this must be taken during the first 20 credits. Scientific Reasoning
CIS 103 - Computer Applications & Concepts	3 credits	Technological Competency
ENGL 101 - English Composition I	3 credits	Writing, Research, Info Lit 1
MATH 162 - Precalculus	3 credits	Within the major, this course must be taken within the first 20 credits Quantitative Reasoning
SOC 101 - Introduction to Sociology	3 credits	Cultural Analysis & Interpretation

Course Number and Name	Credits	Advisory Notes
BIOL 123 - Principles of Biology I	4 credits	Fulfils major prerequisite. Must earn a grade of "C" or better to take BIOL 124. If you do not pass BIOL 123 within two

Course Number and Name	Credits	Advisory Notes
		semesters you are not progressing in the major.
CHEM 122 - College Chemistry II	4 credits	Must earn a grade of "C" or better or get permission of Chemistry department head to take CHEM 221
ENGL 102 - The Research Paper	3 credits	Writing, Research, Info Lit 2
FREN 101 - Elementary French or HUM 101 - Cultural Traditions: Ancient to the 13 th Century or SPAN 101 - Elementary Spanish	3 credits	
PSYC 101 - Introduction to Psychology	3 credits	

Course Number and Name	Credits	Advisory Notes
BIOL 124 - Principles of Biology II	4 credits	Must earn a grade of "C" or better
CHEM 221 - Organic Chemistry I	5 credits	Must earn a grade of "C" or better or get permission of Chemistry department head to take CHEM 222
MATH 171 - Calculus I	4 credits	
BIOL 211 - Genetics or BIOL 225 - Ecology and Field Biology or BIOL 241 - Principles of Microbiology or BIOL 255 - Biotechnology I: Basic Laboratory Techniques in Biotechnology or	4 credits	Must earn a grade of "C" or better Prerequisite for BIOL 211: BIOL 106 or BIOL 108 or BIOL 109 or BIOL 123 with a "C" or better or permission of the department head

Course Number and Name	Credits	Advisory Notes
BIOL 256 - Fermentation, Bioprocessing and Biomanufacturing or BIOL 281 - Biochemistry L or BTT 101 - Biomedical Technician Training Practicum		Prerequisite for BIOL 241: BIOL 106, BIOL 107, BIOL 109, or BIOL 123 with a grade of "C" or better Prerequisite for BIOL 225: BIOL 107 or BIOL 124 with a grade of "C" or better
		Prerequisite for BIOL 255: FNMT 118 or higher with a "C" or better, or MATH 161 placement; CHEM 110 or CHEM 121; BIOL 123 or BIOL 241 with a "C" or better
		Prerequisite for BIOL 256: BIOL 255 with a grade of "C" or better
		BTT 101 requires permission of the Biomedical Technician Training Academic Coordinator and completion of the Orientation to Biomedical Technology

Course Number and Name	Credits	Advisory Notes
CHEM 222 - Organic Chemistry II	5 credits	
ENGL 115 - Public Speaking	3 credits	Oral Communication/Creative Expression
BIOL 211 - Genetics or BIOL 225 - Ecology and Field Biology or BIOL 241 - Principles of Microbiology or BIOL 255 - Biotechnology I: Basic Laboratory Techniques in Biotechnology or BIOL 256 - Fermentation, Bioprocessing and	4 credits	Must earn a grade of "C" or better Prerequisite for BIOL 211: BIOL 106 or BIOL 108 or BIOL 109 or BIOL 123 with a "C" or better or permission of the department head Prerequisite for BIOL 241: BIOL 106, BIOL 107, BIOL 109, or BIOL

Course Number and Name	Credits	Advisory Notes
Biomanufacturing or BIOL 281 - Biochemistry L or BTT 101 - Biomedical Technician Training Practicum		123 with a grade of "C" or better
		Prerequisite for BIOL 225: BIOL 107 or BIOL 124 with a grade of "C" or better
		Prerequisite for BIOL 255: FNMT 118 or higher with a "C" or better, or MATH 161 placement; CHEM 110 or CHEM 121; BIOL 123 or BIOL 241 with a "C" or better
		Prerequisite for BIOL 256: BIOL 255 with a grade of "C" or better
		BTT 101 requires permission of the Biomedical Technician Training Academic Coordinator and completion of the Orientation to Biomedical Technology
PHIL 101 - Introduction to Philosophy	3 credits	