



2009-2010

Bachelor of Science in Biotechnology Student Advisement Record

Name:

KSU ID#:

GENERAL EDUCATION COURSES	HRS.	44 Credit Hours
ANTH 2105 or GEOG 2105 or PSYCH 2105 or SOCI 2105 (or the 1101/2201 version)	2	Anthropology, Geography, Psychology or Sociology
ART 1107, MUSI 1107 or TPS 1107	3	Intro to Art, Music or Theatre
COM 1109	3	Communications
ECON 1100	3	Global Economics
ENGL 1101	3	English Composition I
ENGL 1102	3	English Composition II
ENGL 2110	3	World Literature
HIST 1110	3	World Civilization
HIST 2112	3	America Since 1890
POLS 1101	3	American Government
MATH 1113 Precalculus (higher math may be substituted) OR	3	Math 1111 AND/OR Math 1112
MATH 1190 (higher math may be substituted)	4	Calculus
CHEM 1211/1211 Lab (Co-requisite w/Math 1112 or 1113)	3/1	General Chemistry I and Lab "C" or better required
CHEM 1212/1212 Lab (Co-requisite w/Math 1190)	3/1	General Chemistry II and Lab "C" or better required
LOWER DIVISION MAJOR REQUIREMENTS		"C" or Better required in all courses 16 Credit Hours
BIOL 2107	4	Biological Principles I
BIOL 2108	4	Biological Principles II
PHYS 1111 OR 2211	4	Introductory Physics I OR Principles of Physics I
PHYS 1112 OR Physics 2212	4	Introductory Physics II OR Principles of Physics II
UPPER DIVISION MAJOR REQUIREMENTS		"C" or Better required in all courses 29 Credit Hours
CHEM 3361/L	3/1	Organic Chemistry I and Lab
CHEM 3362/L	3/1	Organic Chemistry II and Lab
STAT 3125+	3	Biostatistics
BIOL 3300	4	Genetics
BIOL 3340	4	Microbiology
BIOL 3380	3	Evolution
BIOL 4486 OR BTEC 3400+	3	Bioethics OR Regulations/QC/QA
BTEC 3301	4	Intro to Biotechnology



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BIOTECHNOLOGY MAJOR ELECTIVES		19 Credit Hours
Choose at least two courses from A and at least two from B; at least 12 of the 19 hours must be BTEC courses "C" or Better required in all courses		
A. BIOTECHNOLOGY LAB ELECTIVES:		
BTEC 3398	1-4	Internship
BTEC 4100	3	Molecular Genetics
BTEC 4110	4	Global Biotechnology-Study Abroad
BTEC 4200	4	Industrial Microbiology
BTEC 4300 *	4	Chromosome Prep and Analysis
BTEC 4310*	5	Cytogenetics Practicum
BTEC 4320+	4	Internship in Pharmaceutical, Biotech, Biomed Industry
BTEC 4400	1-4	Directed Study
BTEC 4460	3	Methods in Forensic DNA Analysis
BTEC 4800	3	Diagnostics: Infectious Agents
BTEC 4490**	1-4	Special Topics in Biotechnology
CHEM 3500 & Lab	3/1	Biochemistry
BIOL 3390	4	Developmental Biology
BIOL 4460	4	Medical Microbiology
CHEM 3501/3501 Lab (Fall ONLY)	3/1	Biochemistry I
CHEM 3502/L	3/1	Biochemistry II
B. BIOTECHNOLOGY NON-LAB ELECTIVES:		
BTEC 3399	1	Seminar in Biotechnology
BTEC 3400*** +	3	Drugs, Biologics, Devices & Diagnostics: Concept to Regulatory Approval
BTEC 3410+	3	Experimental Design & Analysis: Clinical Trials
BTEC 3420+	3	Project Mgt: Reg Affairs & Clinical Trials
BTEC 4455	3	Case Studies in Forensic Science
BTEC 4490**	1-4	Special Topics in Biotechnology
BIOL 3327 *	3	Medical Genetics
BIOL 4410	3	Cell & Molecular Biology
BIOL 4465	3	Immunology
BIOL 4475	3	Virology
BIOL 4486***	3	Bioethics
BIOL 4630****	1-4	Advanced Topics in Cell & Molecular Biology
BIOL 4490****	3	Special Topics in Biology
CHEM 3500	3	Biochemistry (without lab)
INSTITUTIONAL REQUIREMENT		
HPS	3	Fitness for Living
FREE ELECTIVES	12	Any credit courses in university curriculum
TOTAL HOURS FOR B. S. IN BIOTECHNOLOGY		
		123

NOTES: BTEC 3396 (Co-Op) may be used as Free electives only.

* Required courses for those in the Cytogenetics track who wish to sit for the national certification exam. See director of the Cytogenetics track for details.

** Credit towards lab or non-lab elective is course-specific; see advisor for details.

*** One can be used as a elective while other is used as a required course.

****Topic must be Biotechnology related; see Dept. Chair for approval prior to enrolling.

+ Required for the Biomedical Certificate in addition to Stat 3125 and Btec 3400