

## B.S. Biotechnology (Check list)

Name \_\_\_\_\_

Email: \_\_\_\_\_

Course	Offered	Credits	Semester	Grade
<b>Introductory Biology (4 Credits)</b>				
BIO 121 (Introductory Biology)	Fall	4		
<b>Core Courses (9 Credits)</b>				
BIO 305 (Integrative Biology Laboratory)	Spring	3		
BIO 326 (Genetics)	Spring	3		
BIO 327 (Cell Biology)	Fall	3		
<b>Biotechnology Courses (8 Credits)</b>				
BIO 463 (Molecular Biotechnology)	Fall	4		
BIO 464 (Applied Biotechnology)	Spring	4		
<b>Bioengineering/Biomaterial Sciences (3 Credits)</b>				
BEN 468 (Biomaterial and Medical Devices)	Spring	3		
<b>Public Policy/Management (9 Credits)</b>				
EEE 370 (Introduction to Entrepreneurship and Emerging Enterprise)	All	3		
ECN 203 (Economic Ideas and Issues)	All	3		
ECN 301 (Intermediate Microeconomics)	All	3		
<b>Elective courses (6 credits) (See below for list of Elective courses)</b>				
Elective 1				
Elective 2				
<b>Senior Capstone Seminar (3 credits)</b>				
BIO 421 (Capstone Seminar in Biotechnology)		3		
<b>Internship/Independent Research (0-4 credits)</b>				
BIO 460 (Independent Research) OR	All	1-4		
BIO 461 (Experience in Biology)	All	0		
<b>Math and Chemistry requirements (19-21 credits)</b>				
Chem 106/107 (General Chemistry I)	Fall	3, 1		
Chem 116/117 (General Chemistry II)	Spring	3, 1		
Chem 275/276 (Organic Chemistry I)	Fall	3, 2		
Chem 325/326 (OPTIONAL)	Spring	3, 2		
Math 285/286 OR (Life Sciences Calculus I and II)	All	3, 3		
Math 295/296 OR (Calculus I and II)	All	4, 2-4		
Math 295 (Calculus I) and a 300 level Stat Course (APM 391)	All	3, 4		
PHY 101/102 (OPTIONAL)	Spring, Fall	4, 4		
PHY 211/212 (OPTIONAL)	All	3,3		

### List of Elective Courses (6 Credits)

Course	Offered	Credits	Semester	Grade
ACC 201 (Introduction to Accounting)		3		
BEN 541 (Principles of Tissue Engineering)		3		
BIO 345 (Ecology and Evolution)		3		
BIO 355 (General Physiology)		3		
BIO 407 (Advanced Neuroscience)		3		
BIO 409 (General Microbiology)		4		
BIO 416 (Biology of Aging)		3		
BIO 422 (Bioinformatics for Life Scientists)		3		

BIO 425 (Cell and Devl Biology Lab)		3		
BIO 435 (Genetics Lab)		3		
BIO 437 (Seminar in Developmental Neuroscience)		3		
BIO 441 (Seminar in Infectious Diseases)		3		
BIO 442 (Seminar in Model Organism Genetics)		3		
BIO 443 (Seminar in Epigenetics)		3		
BIO 444 (Seminar in Neurotoxicology)		3		
BIO 447 (Immunobiology)		3		
BIO 448 (Evolutionary Medicine)		3		
BIO 450 (Seminar in Evolutionary Genetics)		3		
BIO 456 (Seminar in Human Disease Genomics)		3		
BIO 457 (Principles of Human Toxicology)		3		
BIO 459 (Plants and People)		3		
BIO 462 (Molecular Genetics)		3		
BIO 465 (Molecular Biology Lab)		3		
BIO 472 (Advanced Light Microscopy)		3		
BIO 475 (Biochemistry Lab)		3		
BIO 496 (Neuroscience and Society)		3		
BIO 501 (Biology of Cancer)		3		
BIO 503 (Developmental Biology)		3		
BIO 565 (Cellular Physiology)		3		
BCM 475 (General Biochemistry I)		3		
BCM 476 (General Biochemistry II)		3		
BCM 484 (Biomolecular Modeling)		3		
BTC 401 (Molecular Biology Techniques)		3		
BPE 420 (Bioseparations)		3		
BPE 421 Bioprocess Kinetics and Sys Eng)		3		
BPE 440 Bioprocess and Systems Laboratory)		3		
BPE 481 Bioprocess Engineering Design)		3		
CHE 412 (Metals in Medicine)		3		
CHE 477 (Structural Biochemistry Lab)		3		
CIE 472 (Applied Envir Microbiology)		3		
ECN 355 (Econ of Health and Medical Care)		3		
GEO 400 (Food: A Critical Geography)		3		
LPP 255 (Introduction to the Legal System)		3		
MAR 301 (Principles of Marketing for Non-Management Students)		3		
PAF 410 (Practicum in Public Policy)		3		
PAF 451 (Environmental Policy)		3		
PHI 393 (Contemporary Ethics)		3		
PSC 318 (Technology, Politics, and Environment)		3		
PAF 315 (Methods of Public Policy Analysis and Presentation)		3		
MGT 355 (Strategic Human Resource Management)		3		