

**Department of Biological & Environmental Sciences
Troy University
Troy, AL**

Biomedical Sciences Program (Formerly Cell & Molecular)

120 Semester Hours (SH)

Name: _____
(type or print)

Date: _____
(month/day/year)

Transfer courses accepted: _____

A minimum of 50 % of all degree program hours must be earned with senior college hours.

GENERAL STUDIES REQUIREMENTS: 63 SH

	R	G	E
Area I (6 SH)			
ENG 1101 Composition & Modern Eng. I			3
ENG 1102 Composition & Modern Eng. II			3

Area II (13 SH)

*Must complete a six hour sequence in World/British/Amer. Lit. or U.S./Western Civ./World History (Area II and/or IV). A total of 6 hours from Area II and/or Area IV must be International in scope. International classes are indicated by (*)*

SPH 2241 Fundamentals of Speech			3
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Complete (4) Semester Hours

ART 1133* Visual Arts			2
MUS 1131* Music Appreciation			2
DRA 2200 Intro. to Drama			2

Complete (3) Semester Hours

ENG 2205* World Literature before 1660			3
ENG 2206* World Literature after 1660			3
ENG 2211 American Literature before 1875			3
ENG 2212 American Literature after 1875			3
ENG 2244 British Literature before 1785			3
ENG 2245 British Literature after 1785			3

Complete (3) Semester Hours

CLA 2260* Classical Mythology			3
ENG 2205* World Literature before 1660			3
ENG 2206* World Literature after 1660			3
ENG 2211 American Literature before 1875			3
ENG 2212 American Literature after 1875			3
ENG 2244 British Literature before 1785			3
ENG 2245 British Literature after 1785			3

IDS 2200 Seminar in Creative Thinking			3
FRN 1101* Introductory French I			3
GER 1121* Introductory German I			3
GRK 1111* Introductory Greek I			3
LAT 1131* Introductory Latin I			3
PHI 2203 Intro. to Philosophy			3
PHI 2204 Ethics and Modern World			3
REL 2280* World Religions			3
SPN 1141* Introductory Spanish I			3

	R	G	E
Area III (12 SH)			
BIO 1100 Prin. of Biology			3
BIO L100 Prin. of Biology Lab			1
*CHM 1142 General Chemistry I			3
CHM L142 General Chemistry I Lab			1
*MTH 1125 Calculus I			4

***Placement Test Required**

Area IV (12 SH)

Complete (3) Semester Hours

HIS 1101 Western Civilization I			3
HIS 1102 Western Civilization II			3
HIS 1111 U.S. to 1877			3
HIS 1112 U.S. since 1877			3
HIS 1122* World History to 1500			3
HIS 1123* World History from 1500			3

Complete (9) Semester Hours

ANT 2200* Anthropology			3
ECO 2251* Prin. of Macroeconomics			3
ECO 2252* Prin. of Microeconomics			3
GEO 2210* World Regional Geography			3
HIS 1101 Western Civilization I			3
HIS 1102 Western Civilization II			3
HIS 1111 U.S. to 1877			3
HIS 1112 U.S. since 1877			3
HIS 1122* World History to 1500			3
HIS 1123* World History from 1500			3
POL 2260* World Politics			3
POL 2241 American National Govt			3
PSY 2200 General Psychology			3
PSY 2210 Developmental Psychology			3
SOC 2275 Intro. to Sociology			3
IDS 2200 Sem. in Creative Thinking			3

BIOMEDICAL SCIENCES PROGRAM

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	R	G	E
Area V (20 SH)			
TROY 1101 University Orientation	1		
IS 2241 Computer Concepts & Appl.	3		
BIO 1101 Organismal Biology	3		
BIO L101 Organismal Biology Lab	1		
CHM 1143 General Chemistry II	3		
CHM L143 General Chemistry II Lab	1		

Select a Sequence

PHY 2252 General Physics I	3		
PHY L252 General Physics I Lab	1		
PHY 2253 General Physics II	3		
PHY L253 General Physics II Lab	1		
<i>or</i>			
PHY 2262 Physics I with Calculus	3		
PHY L262 Physics I with Calculus Lab	1		
PHY 2263 Physics II with Calculus	3		
PHY L263 Physics II with Calculus Lab	1		

Electives (2 SH)

Biomedical Sciences Concentration (55 SH)

Required Core (23 SH)

BIO 2229 General Ecology	3		
BIO L229 General Ecology Lab	1		
BIO 3320 Genetics	3		
BIO L320 Genetics Lab	1		
BIO 3372 Microbiology	3		
BIO L372 Microbiology Lab	1		
CHM 3342 Organic Chemistry I	3		
CHM L342 Organic Chemistry I Lab	1		
CHM 3343 Organic Chemistry II	3		
CHM L343 Organic Chemistry II Lab	1		
MTH 2210 Applied Statistics	3		

Total Hours Completed including _____

Hours to be completed _____

General Studies Courses _____

Program I _____

Free Electives _____

Senior Level Hours Required _____

Senior Level Hours Earned _____

Senior Level Remaining _____

SPECIAL NOTE:

Every reasonable effort to attain accuracy has been made: no responsibility is assumed for editorial, clerical, or printing errors or errors occasioned by honest mistake. Should you discover an error, it is your responsibility to report it immediately to the Departmental Office.

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	R	G	E
<i>Required for Concentration: (16 SH)</i>			
BIO 3347 Human Anatomy & Phys. I	3		
BIO L347 Human Anatomy & Phys. I L	1		
BIO 3348 Human Anatomy & Phys. II	3		
BIO L348 Human Anatomy & Phys. II L	1		
BIO 4478 Cell Biology	3		
BIO L478 Cell Biology Lab	1		
BIO 4482 Molecular Biology	3		
BIO L482 Molecular Biology Lab	1		

Select 16 hours four courses with corresponding labs) from the three categories below.

BIO 3382 Immunology	3		
BIO L382 Immunology Lab	1		
BIO 4416 Microbial Ecology	3		
BIO L416 Microbial Ecology Lab	1		
BIO 4430 Applied Genetics	3		
BIO L430 Applied Genetics Lab	1		
BIO 4451 Toxicology	3		
BIO L451 Toxicology Lab	1		
BIO 4471 Parasitology	3		
BIO L471 Parasitology Lab	1		
BIO 4480 Histology	3		
BIO L480 Histology Lab	1		
CHM 3352 Biochemistry	3		
CHM L352 Biochemistry Lab	1		