BIOTECHNOLOGY

CPS Draft 2016-2017

Last, First ID

REQUIRED FOUNDATION COURSES (minimum grade requirement:C)
All classes completed at UHCL will count toward the overall grade point average.

SUBPLAN FOUNDATIONS: FACULTY ADVISOR Please indicate x by the foundations you want to require

Molecular Biotechnology

_____ BIOL 4252 Mol Bio Lab
_____ BIOL 4242 Biochem Lab

Bioinformatics/Computational Biology

_____CSCI 1320 C Prog or CSCI 1370 JAVA Prog
_____CSCI 3303 Fund of Prog
_____CSCI 4333 Design of DBS

Management and Marketing
The following 3 undergraduate classes
_____MGMT 3301 ManagementTheory and Practice
_____MGMT 4354 Org Behavior Theory and Application
_____MKTG 3301 Principles of Marketing
Or
The following 2 graduate classes
_____MGMT 5032 Human Behavior in Organization
_____MKTG 5031 Marketing Management

▼ CORE REQUIREMENTS 18 Hours

Molecular Biology
_____BIOT 5031: Applied Biotech
_____BIOT 5733: Bioinformatics
_____BIOT 5736: Bioethics
_____BIOT 5021 Methods in Biot
_____BIOT 5011 Meth in Biot Discussions
_____BIOT 5121 Adv Meth in Biotech I
_____BIOT 5111 Adv Meth in Biotech I Discussions
_____BIOT 5122 Adv. Meth of Biotech II
_____BIOT 5112 Adv Methods in BiotechII Discussion

Bioinformatics/ComputationaBiology
_____BIOT 5031: Applied Biotech
_____BIOT 5733: Bioinformatics
_____BIOT 5736: Bioethics
_____BIOT 5021 Methods in Biot
_____BIOT 5011 Meth in Biot Discussions
_____CSCI 5833 Data Miming: Tools and Techniques
_____CSCI 5933 Computational Bioinformatics
(CSCI 5833 must be taken prior to5939)

Management and Marketing
_____BIOT 5031: Applied Biotech
_____BIOT 5733: Bioinformatics
_____BIOT 5736: Bioethics
_____BIOT 5021 Methods in Biot
_____BIOT 5011 Meth in Biot Discussions
BIOT 5111 Adv. Meth in Biotech I Discussion ***or***
_____BIOT 5112 Adv. Meth in Biot II Discussion
BIOT 5121 Adv. Meth in Biotech I ***or***
_____BIOT 5122 Adv. Meth of Biotech II
_____EMGT 5430 Professional Project Management

▼ ELECTIVE REQUIREMENTS 9 Hours
Electives are selected in consultation with the faculty advisor PRIOR to taking class

				Faculty initial changes:
_____	_____	5x3x – 6x3x	3	_____
_____	_____	4x3x – 6x3x	3	_____
_____	_____	4x3x – 6x3x	3	_____

▼ COMPLETION OPTION Extended Coursework - or - Thesis **9 Hours**
EXTENDED COURSEWORK OPTION

				Faculty initial changes:
_____	_____	5x3x – 6x3x	3	_____
_____	_____	5x3x – 6x3x	3	_____
_____	BIOT 6838 Research Project Take during last 12 hours of course work		3	_____

E-mail instructor for permission number to register

THESIS OPTION

		Faculty initial changes
_____ BIOT 5530 Research Method	Take early in program. E-mail instructor for permission number to register.	3
_____ BIOT 6939 Master's Thesis	Instruction Packet required before attempting Thesis proposal. Packet is	3
_____ BIOT 6939 Master's Thesis	**ONLY** available online at http://prtl.uhcl.edu/portal/page/portal/SCE/sce_thesis	3

IMPORTANT INFORMATION:
- CHANGES: ALL SUBSEQUENT SUBSTITUTIONS FOR THE CLASSES listed above must be approved BEFORE enrolling in the substitute class. The faculty advisor indicates the substitution and initials the change on the CPS (on a print copy or on the electronic copy located in the network folder). Faculty sends the updated Final CPS (e-mail or hardcopy) to CSE Academic Advising.
- A combined maximum of **6 hours of Independent Study/Coop/Internship** may apply to the degree (if allowed for this degree).
- A maximum of **6 hours of grades in the C/C+ range are allowed. Grades of C- and below will not apply toward the degree**. This limit does not include foundations, if assigned.
- Minimum cumulative GPA for graduation is 3.000. The GPA includes ALL classes taken at UHCL, including foundation courses if any were assigned.
- Continuous enrollment must be maintained by completing at least one class each year for the CPS to remain valid. Five years are allowed for degree completion.

_____ Your *Final CPS will be e-mailed to your student e-mail account*
Student

_____ Date_____ Academic Advior/Date: _____
Dr.

Molecular Biotechnology Specialization Electives (9-15 hours)

BIOT 5231 Advanced Mammalian Tissue Culture
BIOT 5235 Bacterial Taxonomy and Biotechnology Laboratory
BIOT 5331 Stem Cell Biotechnology
BIOT 5431 Plant Genomic Analysis
BIOT 5433 Marine Biotechnology
BIOT 5535 Environmental Biotechnology
BIOT 5915 Cooperative Education Work Term
BIOT 5921 Laboratory Topics in Biotechnology
BIOT 5931 Research Topics in Biotechnology
BIOT 5939 Independent Study in Biotechnology
BIOT 6011 Biotechnology Practicum
BIOT 6021 Biotechnology Practicum
BIOT 6031 Biotechnology Practicum
BIOL 5131 Membrane Biology
BIOL 5132 Cell Signaling
BIOL 5332 Toxicology and Environmental Health
BIOL 5333 Industrial Microbiology
BIOL 5433 Enzymology
BIOL 5435 Advanced Immunology
BIOL 5634 Apoptosis
BIOL 5635 Neuroscience
BIOL 5732 Advanced Molecular Biology
BIOL 5734 Oncogenes
BIOL 5737 Molecular Vectors
BIOL 5738 Gene Therapy
BIOL 5833 Proteomics

Bioinformatics/Computational Biology Specialization Electives (9-15 hours)

BIOT 5111 Advanced Methods of Biotechnology I Discussions
BIOT 5112 Advanced Methods of Biotechnology II Discussions
BIOT 5121 Advanced Methods of Biotechnology I
BIOT 5122 Advanced Methods of Biotechnology II
BIOT 5235 Bacterial Taxonomy and Biotechnology Laboratory
BIOT 5431 Plant Genomic Analysis
BIOT 5915 Cooperative Education Work Term
BIOT 5919 Independent Study in Biotechnology
BIOT 5939 Independent Study in Biotechnology
BIOT 5921 Lab Topics in Biotechnology
BIOT 5931 Research Topics in Biotechnology
BIOT 6011 Biotechnology Practicum
BIOT 6021 Biotechnology Practicum
BIOT 6031 Biotechnology Practicum
BIOL 5737 Molecular Vectors
BIOL 5833 Proteomics
CSCI 5530 Pattern Classification
CSCI 5532 Pattern Recognition & Image Processing
CSCI 5633 Web Database Development

Management & Marketing Specialization Electives (9-15 hours)

Designated Electives - students are required to take 3 of the following electives:
MGMT 5032 Human Behavior in Organizations
MGMT 5434 Negotiation Skills and Strategies
MGMT 5638 Leading Technology
MGMT 5133 Teamwork and Leadership Skills: Theory in Practice
MGMT 5636 Management of Technology

Biotechnology Management and Marketing Specialization Electives (9-15 hours)
BIOT 5111 Advanced Methods of Biotechnology I Discussions
BIOT 5121 Advanced Methods of Biotechnology I
BIOT 5915 Cooperative Education Work Term
BIOT 5921 Laboratory Topics in Biotechnology
BIOT 5939 Independent Study in Biotechnology
BIOT 6021 Biotechnology Practicum
BIOT 5931 Research Topics in Biotechnology
INDH 6135 Radiation Protection
BIOT 5112 Advanced Methods of Biotechnology II Discussions
BIOT 5122 Advanced Methods of Biotechnology II
BIOT 5919 Independent Study in Biotechnology
BIOT 5929 Independent Study in Biotechnology
BIOT 6011 Biotechnology Practicum
BIOT 6031 Biotechnology Practicum
MGMT 6332 International Management

Students enrolled in the Management and Marketing specialization cannot take more than 15 hours of Management and/or Marketing courses.