

Troy University Undergraduate Academic Council Minutes

August 25, 2016

Meeting location: Hawkins Hall Conference Room with additional locations by WebEx.

Call to Order

UGAC Chair Shellye Vardaman called the meeting to order at 3:00 Christine Haug called the roll.

Voting Members Present- Heidi Beattie, Tim Buckner, Kanessa Doss, Carrie Lee Gardner, Margaret Gnoinska, Joel Hammonds, Rachel Hooper, Jerry Johnson, Rita Jones, Barbara Metzger, Meg Milligan, Carol Moore, Ben Robertson, Frank Thompson, Rick Turpin.

Voting Members Absent- Vijaya Gompa, Jonathan Harrington (excused), Karen Ross, Joe Teng.

Guests attending – Tamara Jones, Janet Gaston.

Legend: **New Courses**
Revised Courses /Majors/Minors
Renumbered Courses
New Majors or Minors
Eliminated Courses

COLLEGE OF ARTS & SCIENCES

1. Janet Gaston was present to discuss the addition of 5 new course to support the proposed Minor in Fire Science and Emergency Management under Criminal Justice.

- FS 33XX** **Introduction to Fire Science (3)**
An Introduction to the science of public fire protection, with a review of the role, history and philosophy of the fire service in the United States. Includes career orientation and a discussion of current and future problems in fire protection. Note: This class is offered as an Internet-based class and as a classroom-based class.
- FS 33XX** **Community Risk Reduction for Emergency Services (3)**
This course provides an overview of Community Risk Reduction in which the student will be able to identify risks and hazards as well as develop programs to help prevent or mitigate manmade and natural incidents and disasters. The course will examine current issues affecting the health and safety of communities and develop a plan to apply learned methodologies to reduce risk. Case studies, exercises are discussions will be used to encourage critical review of the philosophy and application of community risk reduction. This course addresses the development of risk matrices, identification of community health threats and developing initiatives to help lower exposure to the risks identified.
- FS 33XX** **Fire and Emergency Services Administration (3)**
This course provides an overview for fire and emergency services administration. This course demonstrates the importance of the following fundamental concepts necessary to effectively manage and lead a fire and emergency services organization while dealing the challenges and changes of the 21st century. Accountable budgeting, Anticipation of challenges, Organizational management, Persuasion and influence, Organizational changes, Analytical problem solving. A central part of the course focuses on how the leadership of a fire and emergency services organization develops and maintains both internal and external cooperation to create a coordinated approach to achieving the organization's mission.

FS 33XX Financial Management in Fire and Emergency Services (3)
This course introduces principles and practices of budget and finance, and combines them with the methods and techniques of both oral and written communication. The course is intended to prepare students for tasks and challenges related to fire and emergency services financial management, and to effectively communicate those business-related matters through either presentations or documents. This course equips students with competence in the use of budgeting terminology, innovations in budget preparation, and the linkage of the role of technology in shaping budget preparation and administrative implementation. The focus is to have the student appreciate the importance of sound fiscal budgetary practices within the fire and emergency service settings and the ability to present presentations professionally.

FS 33XX Arson Investigation (3)
An analysis of incendiary fire investigation from the viewpoint of the field investigator, with an emphasis on the value of various aids and techniques in the detection of arson, collection and preservation of evidence, investigation, interrogation, related laws of arson, court appearance and testimony.

Motion was made by Kanessa Doss to approve the new courses for the proposed Fire Science and Emergency Major Minor.

Second was made by Tim Buckner.

Motion passed.

2. Janet Gaston was present to discuss the addition of a Minor in Fire Science and Emergency Management.

FIRE SCIENCE AND EMERGENCY MANAGEMENT MINOR (18 HOURS)

FS 33XX	(3)	Introduction to Fire Science
FS 33XX	(3)	Community Risk Reduction for Fire and Emergency Services
FS 33XX	(3)	Fire and Emergency Services Administration
CJ 3305	(3)	Foundations of Emergency Management

Select 6 hours from the following courses:

FS 33XX	(3)	Financial Management in Fire Service
FS 33XX	(3)	Arson Investigation
CJ 3335	(3)	Security Operations
CJ 3345	(3)	Criminology
CJ 4440	(3)	Terrorism
CJ 4470	(3)	Criminal Justice Issues in Homeland Security
COM 4460	(3)	Crisis Communication

Motion was made by to Jerry Johnson to approve the new minor.

Second was made by Meg Milligan.

Motion passed.

3. Janet Gaston was present to discuss the addition of the course CJ 44XX Violence in America to the Criminal Justice Curriculum.

CJ 44XX **Violence in America (3)**
In-depth study of violence, including types of violence, categories of offenders and victims, social consequences, and potential solutions.

Motion was made by Rick Turpin to approve the new course for Criminal Justice.

Second was made by Margaret Gnoinska.

Motion passed.

4. There was not a representative present to discuss creating 4 new courses with corresponding labs to make the Air Force ROTC program a four year program.

AS 11XX **The Foundations of the United States Air Force I (1)**
Is the first of two courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.
Co-requisite: AS L1XX (Leadership Laboratory I)

AS L1XX **Leadership Laboratory I (2)**
Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 11XX (*The Foundations of the United States Air Force I*) course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.
Co-requisite: AS 11XX (The Foundations of the United States Air Force I)

AS 11XX **The Foundations of the United States Air Force II (1)**
Is the second of two courses designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.
Prerequisite: AS 11XX (The Foundations of the United States Air Force I)
Co-requisite: AS L1XX (Leadership Laboratory II)

AS L1XX **Leadership Laboratory II (2)**
Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 11XX (*The Foundations of the United States Air Force II*) course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.
Prerequisite: AS L1XX (Leadership Laboratory I)
Co-requisite: AS 11XX (The Foundations of the United States Air Force II)

AS 22XX **The Evolution of the USAF Air and Space Power I (1)**
The first of two courses featuring topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions, and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.
Prerequisite: AS 11XX (The Foundations of the United States Air Force II)
Co-requisite: AS L2XX (Leadership Laboratory I)

AS L2XX **Leadership Laboratory I (2)**
Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 22XX (*The Evolution of the USAF Air and Space Power I*) course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.
Prerequisite: AS L1XX (Leadership Laboratory II)
Co-requisite: AS 22XX (The Evolution of the USAF Air and Space Power I)

AS 22XX **The Evolution of the USAF Air and Space Power II (1)**
The second of two courses featuring topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions, and continued application of communication skills. Its

purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.
Prerequisite: AS 11XX (The Foundations of the United States Air Force I)
Co-requisite: AS L2XX (Leadership Laboratory II)

AS L2XX

Leadership Laboratory II (2)

Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 22XX (*The Evolution of the USAF Air and Space Power II*) course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.
Prerequisite: AS L1XX (Leadership Laboratory I)
Co-requisite: AS 22XX (The Evolution of the USAF Air and Space Power II)

Due to the fact that there was not a representative present to discuss this material Dr. Fulmer recommended that the council table it until the next meeting. All members supported this motion.
Motion Tabled.

5. There was not a representative present to discuss changes in course descriptions and prerequisite changes for the 4 courses in the Air Force ROTC program.

**Current:
AS 3312**

Air Force Leadership Studies I (3)

~~The first of two courses that study leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.~~

**Proposed:
AS 3312**

Air Force Leadership Studies I (3)

The first of two courses that teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.
Prerequisite: AS 22XX (The Evolution of the USAF and Space Power II)
Co-requisite: AS L312

**Current:
AS 3313**

Air Force Leadership Studies II (3)

~~The second of two courses that study leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.~~
Prerequisite: AS 3312.

**Proposed:
AS 3313**

Air Force Leadership Studies II (3)

The second of two courses that teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.
Prerequisite: AS 22XX (Air Force Leadership Studies I)
Co-requisite: AS L313

Current:
AS 4412

National Security Affairs/Preparation for Active Duty I (3)

~~The first of two courses that examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.~~

~~Prerequisite: AS 3312.~~

Proposed:
AS 4412

National Security Affairs/Preparation for Active Duty I (3)

The first of two courses designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

Prerequisite: AS 3313.

Co-requisite: AS L412

Current:
AS 4413

National Security Affairs/Preparation for Active Duty II (3)

~~The second of two courses that examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.~~

~~Prerequisite: 4412.~~

Proposed:
AS 4413

National Security Affairs/Preparation for Active Duty II (3)

The second of two courses designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

Prerequisite: AS 4412.

Co-requisite: AS L413

Due to the fact that there was not a representative present to discuss this material Dr. Fulmer recommended that the council table it until the next meeting. All members supported this motion.

Motion Tabled.

6. Janet Gaston was present to discuss the deactivation of Biology Courses.

Deactivations:

BIO 3308	Vertebrate Zoology (3)
BIO L308	Vertebrate Zoology Lab (1)
BIO 4430	Applied Genetics (1-3)
BIO L430	Applied Genetics Lab (1-3)
BIO 4445	Ichthyology (3)
BIO L445	Ichthyology Lab (1-3)
BIO 4446	Herpetology (3)
BIO L446	Herpetology Lab (1-3)
BIO 4448	Mammalogy (3)
BIO L448	Mammalogy Lab (1-3)

Motion was made by Frank Thompson to deactivate these Biology courses.

Second was made by Meg Milligan.

Motion passed.

7. Janet Gaston was present to discuss changes in the Biology Major.

Current:

BIOLOGY MAJOR (43 HOURS)

*Special Topics in Biology (BIO 4476), Guided Independent Studies (BIO 4491/4492) and Guided Independent Research (BIO 4493, 4494) may only be taken for a maximum of 6 ~~semester~~ hours.

Specialized General Studies Requirements

General studies requirements for the biology, environmental science, biomedical sciences, and marine biology programs and the biology major total 64 semester hours. See the General Studies section of this catalog for complete general studies information.

Area III

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation

Select one sequence:

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab

OR

PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Major Requirements

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Complete one botany course with its corresponding lab:

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab
BIO 4425	(4)	Field Botany

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Complete one zoology course with its corresponding lab:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 4405	(3)	Entomology
BIO L405	(1)	Entomology Lab

BIO 4420	(4)	Field Vertebrate Zoology
BIO 4445	(3)	Ichthyology
BIO L445	(1)	Ichthyology Lab
BIO 4446	(3)	Herpetology
BIO L446	(1)	Herpetology Lab
BIO 4447	(3)	Ornithology
BIO L447	(1)	Ornithology Lab
BIO 4448	(3)	Mammalogy
BIO L448	(1)	Mammalogy Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab

Complete one ecology/environmental course with its corresponding lab:

BIO 1120	(3)	Survey of Environmental Sciences
BIO L120	(1)	Survey of Environmental Sciences Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

Complete one physiology/cell/molecular course with its corresponding lab:

BIO 3347	(3)	Human Anatomy and Physiology I
BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 3386	(3)	Hematology
BIO L386	(1)	Hematology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4430	(3)	Applied Genetics
BIO L430	(1)	Applied Genetics Lab
BIO L451	(1)	Toxicology Lab
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Complete one upper-level adviser-approved biology course and its corresponding lab.

Proposed:

BIOLOGY MAJOR (44 HOURS)

*Special Topics in Biology (BIO 4476), Guided Independent Studies (BIO 4491/4492) and Guided Independent Research (BIO 4493, 4494) may only be taken for a maximum of 6 semester hours.

Specialized General Studies Requirements

General studies requirements for the biology, environmental science, biomedical sciences, and marine biology programs and the biology major total 64 semester hours. See the General Studies section of this catalog for complete general studies information.

Area III

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I

CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation

Select one sequence:

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab
OR		
PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Major Requirements

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
BIO 4484	(1)	Senior Seminar in Biological & Environmental Sciences
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Complete one botany course with its corresponding lab:

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab
BIO 4425	(4)	Field Botany

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Complete one zoology course with its corresponding lab:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 4405	(3)	Entomology
BIO L405	(1)	Entomology Lab
BIO 4420	(4)	Field Vertebrate Zoology
BIO 4447	(3)	Ornithology
BIO L447	(1)	Ornithology Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab

Complete one ecology/environmental course with its corresponding lab:

BIO 1120	(3)	Survey of Environmental Sciences
BIO L120	(1)	Survey of Environmental Sciences Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

Complete one physiology/cell/molecular course with its corresponding lab:

BIO 3347	(3)	Human Anatomy and Physiology I
BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 3386	(3)	Hematology
BIO L386	(1)	Hematology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Complete one upper-level adviser-approved biology course and its corresponding lab.

Motion was made by Margaret Gnoinska to accept the changes.

Second was made by Carol Moore.

Motion passed.

8. Janet Gaston was present to discuss changes in the Biology Program and Biology Pre-Professional Program.

Current:

BIOLOGY PROGRAM (56 HOURS)

**Special Topics in Biology (BIO 4476), Guided Independent Studies (BIO 4491/4492) and Guided Independent Research (BIO 4493, 4494) may only be taken for a maximum of 6 semester hours*

Specialized General Studies Requirements

Area III

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation
BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab

Complete one sequence (physics sequence not required for medical technology concentration):

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab
OR		
PHY 2262	(3)	Physics I with Calculus

PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Requirements

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
BIO 4484	(1)	Senior Seminar in Biological & Environment Sciences
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Complete one of the five concentrations shown below (biomedical sciences, food safety, general biology, ~~ecology and field biology~~, or medical technology):

Biomedical Sciences Concentration:

BIO 3347	(3)	Human Anatomy and Physiology I
BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Complete 16 hours from the courses listed below. One upper level botany, ecology/environmental or zoology course with its corresponding lab may be used towards this requirement. The 16 hours chosen should be based on the student's future plans for employment, graduate school or professional school.

BIO 3340	(3)	Evolution
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4430	(3)	Applied Genetics
BIO L430	(1)	Applied Genetics Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab
BIO 4476	(1-3)	Special Topics in Biology
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4488/ 4489/4490	(1-3)	Internship in Biological or Environmental Science
BIO 4491/92	(1-3)	Guided Independent Research
BIO 4493/94	(1-3)	Guided Independent Study
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab

Food Safety Concentration:

BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4451	(3)	Toxicology

BIO L451	(1)	Toxicology Lab
BIO 4418	(3)	Food Laws and Regulations
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
HSTM 4466	(3)	Restaurant Management
NSG 2211	(3)	Human Nutrition

Complete seven or more hours from the courses listed below. Lectures and their corresponding labs must be taken together.

BIO 3340	(3)	Evolution
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab
BIO 4476	(1-3)	Special Topics in Biology*
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab
BIO 4488/	(1-8)	Internship in the Biological

OR

4489/4490		Environmental Sciences
BIO 4491/92	(3)	Guided Independent Research
BIO 4493/94	(3)	Guided Independent Study*
CHM 4455	(3)	Instrumental Analysis
CHM L455	(1)	Instrumental Analysis Lab
HSTM 3372	(3)	Hospitality Management
HSTM 4465	(3)	Food and Beverage Service

General Biology Concentration:

Complete one botany course with its corresponding lab:

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab
BIO 4425	(4)	Field Botany

Complete one zoology course with its corresponding lab:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 4405	(3)	Entomology
BIO L405	(1)	Entomology Lab
BIO 4420	(4)	Field Vertebrate Zoology
BIO 4445	(3)	Ichthyology
BIO L445	(1)	Ichthyology Lab
BIO 4446	(3)	Herpetology
BIO L446	(1)	Herpetology Lab
BIO 4447	(3)	Ornithology
BIO L447	(1)	Ornithology Lab
BIO 4448	(3)	Mammalogy
BIO L448	(1)	Mammalogy Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab

Complete one ecology/environmental course with its corresponding lab:

BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

Complete one physiology/cell/molecular course with its corresponding lab:

BIO 3347	(3)	Human Anatomy and Physiology I
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BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab
BIO 3386	(3)	Hematology
BIO L386	(1)	Hematology Lab
BIO 4414	(3)	Food Microbiology
BIO L414	(1)	Food Microbiology Lab
BIO 4430	(3)	Applied Genetics
BIO L430	(1)	Applied Genetics Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology La
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab

Complete 16 additional semester hours of **BIO or MB Biology and Marine Biology** courses. The 16 hours chosen should be based on the student's future plans for employment, graduate school or professional school.

Ecology and Field Biology Concentration:

BIO 4420	(4)	Field Vertebrate Zoology
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4425	(4)	Field Botany

~~Complete 12 hours (three courses with labs) from the three categories below. At least one course must be taken from each of the three categories.~~

~~**Zoology:**~~

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 4405	(2)	Entomology
BIO L405	(2)	Entomology Lab

~~**Botany:**~~

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab

~~**Ecology:**~~

BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

~~Complete an additional eight hours of adviser-approved BIO or MB courses.~~

Medical Laboratory Science Concentration

Students must complete 29 semester hours on the Troy Campus prior to applying for an internship.

Lectures and their corresponding labs must be taken together.

BIO 3347	(3)	Human Anatomy and Physiology I
BIO L347	(1)	Human Anatomy and Physiology I Lab
BIO 3348	(3)	Human Anatomy and Physiology II
BIO L348	(1)	Human Anatomy and Physiology II Lab
BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 3382	(3)	Immunology
BIO L382	(1)	Immunology Lab

Complete one course with its corresponding lab:

BIO 3386	(3)	Hematology
BIO L386	(1)	Hematology Lab

- BIO 4471 (3) Parasitology
 BIO L471 (1) Parasitology Lab

In addition to the above courses, including core courses, students must complete 33 semester hours of hospital internship MLS 4400-4413 courses.

BIOLOGY PRE-PROFESSIONAL MAJOR PROGRAM (55 HOURS)

Specialized General Studies Requirements

Area III (12 Hours)

- BIO 1100 (3) Principles of Biology
 BIO L100 (1) Principles of Biology Lab
 CHM 1142 (3) General Chemistry I
 CHM L142 (1) General Chemistry I Lab
 MTH 1125 (4) Calculus I

Area V Requirements (20 Hours)

- BIO 1101 (3) Organismal Biology
 BIO L101 (1) Organismal Biology Lab
 CHM 1143 (3) General Chemistry II
 CHM L143 (1) General Chemistry II Lab
 IS 2241 (3) Computer Concepts and Applications
 TROY 1101 (1) University Orientation

Complete one sequence:

- PHY 2252 (3) General Physics I
 PHY L252 (1) General Physics I Lab
 PHY 2253 (3) General Physics II
 PHY L253 (1) General Physics II Lab
OR
 PHY 2262 (3) Physics I with Calculus
 PHY L262 (1) Physics I with Calculus Lab
 PHY 2263 (3) Physics II with Calculus
 PHY L263 (1) Physics II with Calculus Lab

Requirements for the major

Lectures and their corresponding labs must be taken together.

- BIO 2220 (3) Principles of Cell Biology
 BIO L220 (1) Principles of Cell Biology Lab
 BIO 2229 (3) General Ecology
 BIO L229 (1) General Ecology Lab
 BIO 3320 (3) Genetics
 BIO L320 (1) Genetics Lab
 CHM 3342 (3) Organic Chemistry I
 CHM L342 (1) Organic Chemistry I Lab
 CHM 3343 (3) Organic Chemistry II
 CHM L343 (1) Organic Chemistry II Lab
 MTH 2210 (3) Applied Statistics
 BIO 4484 (1) Senior Seminar in Biological & Environment Sciences

Select 32 semester hours from the courses listed below:

- BIO 3347 (3) Human Anatomy & Physiology I
 BIO L347 (1) Human Anatomy & Physiology I Lab
 BIO 3348 (3) Human Anatomy & Physiology II
 BIO L348 (1) Human Anatomy & Physiology II Lab
 BIO 3382 (3) Immunology
 BIO L382 (1) Immunology Lab
 BIO 3386 (3) Hematology
 BIO L386 (1) Hematology Lab
 BIO 4414 (3) Food Microbiology
 BIO L414 (1) Food Microbiology Lab
~~BIO 4430 (3) Applied Genetics~~
~~BIO L430 (1) Applied Genetics Lab~~
 BIO 4451 (3) Toxicology

BIO L451	(1)	Toxicology Lab
BIO 4471	(3)	Parasitology
BIO L471	(1)	Parasitology Lab
BIO 4480	(3)	Histology
BIO L480	(1)	Histology Lab
BIO 4482	(3)	Molecular Biology
BIO L482	(1)	Molecular Biology Lab
BIO 4485	(1-2)	Principles & Methods for the Lab Assistant
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab

Electives

BIO 3372	(3)	Microbiology
BIO L372	(1)	Microbiology Lab
BIO 4416	(3)	Microbial Ecology
BIO L416	(1)	Microbial Ecology Lab
BIO 4448	(3)	Mammalogy
BIO L448	(1)	Mammalogy Lab
BIO 4476	(1-4)	Special Topics in Biology
BIO 4491-92	(1-3)	Guided Independent Research
BIO 4493-94	(1-3)	Guided Independent Study

Motion was made by Rita Jones to the changes.

Second was made by Barbara Metzger.

Motion passed.

9. Janet Gaston was present to discuss changes in the Environmental Sciences Program and Minor.

ENVIRONMENTAL SCIENCE MINOR (18-20 HOURS)

BIO 1120	(3)	Survey of Environmental Sciences
BIO L120	(1)	Survey of Environmental Sciences Lab
BIO 3328	(3)	Environmental Pollution and Control
BIO L328	(1)	Environmental Pollution and Control Lab

Complete 12 hours from the following:

BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab
BIO 4420	(4)	Field Vertebrate Zoology (combined lecture and lab)
BIO 4425	(4)	Field Botany or BIO 4402 (combined lecture and lab)
BIO 4476	(1-4)	Special Topics (combined lecture and lab)
BIO 4491	(1-4)	Guided Independent Research (combined lecture and lab)
CHM 3350	(3)	Principles of Physical Chemistry
CHM L350	(1)	Principles of Physical Chemistry Lab
CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM 4445	(3)	Instrumental Analysis
CHM L445	(1)	Instrumental Analysis Lab

Current:

ENVIRONMENTAL SCIENCE PROGRAM (55 HOURS)

Special Topics in Biology (BIO 4476), Guided Independent Studies (BIO 4491/4492) and Guided Independent Research (BIO 4493, 4494) may only be taken for a maximum of 6 semester hours.

Specialized General Studies Requirements

Area III

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
MTH 1125	(4)	Calculus I

Area V Requirements

IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation
BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab

~~Complete one sequence (physics sequence not required for medical technology concentration):~~

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab
PHY 2253	(3)	General Physics II
PHY L253	(1)	General Physics II Lab

OR

PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab
PHY 2263	(3)	Physics II with Calculus
PHY L263	(1)	Physics II with Calculus Lab

Program Requirements:

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Environmental Science Core (32 semester hours)

BIO 1120	(3)	Survey of Environmental Sciences
BIO L120	(1)	Survey of Environmental Sciences Lab
BIO 3328	(3)	Environmental Pollution and Control
BIO L328	(1)	Environmental Pollution and Control Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4451	(3)	Toxicology
BIO L451	(1)	Toxicology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab
BIO 4484	(1)	Senior Seminar in Biological & Environment Sciences

~~Complete 11-12 hours of adviser-approved upper-level courses in biology, marine biology, chemistry or mathematics.~~

~~BIO 4488/4489/4490 (1-8) Internship in Environmental Science~~

Proposed:

ENVIRONMENTAL SCIENCE & FIELD BIOLOGY PROGRAM (56 HOURS)

Special Topics in Biology (BIO 4476), Guided Independent Studies (BIO 4491/4492) and Guided Independent Research (BIO 4493, 4494) may only be taken for a maximum of 6 semester hours.

Specialized General Studies Requirements

Area III

BIO 1100	(3)	Principles of Biology
BIO L100	(1)	Principles of Biology Lab
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab

Select one of the following:

MTH 1114	(3)	Pre-Calculus Trigonometry
MTH 1125	(4)	Calculus I*

***Required for Field Biology Concentration**

Area V Requirements

IS 2241	(3)	Computer Concepts and Applications
TROY 1101	(1)	University Orientation
BIO 1101	(3)	Organismal Biology
BIO L101	(1)	Organismal Biology Lab
CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
GEO 2299	(3)	Basic GIS

Complete one:

PHY 2252	(3)	General Physics I
PHY L252	(1)	General Physics I Lab

OR

PHY 2262	(3)	Physics I with Calculus
PHY L262	(1)	Physics I with Calculus Lab

Program Requirements:

BIO 2220	(3)	Principles of Cell Biology
BIO L220	(1)	Principles of Cell Biology Lab
BIO 2229	(3)	General Ecology
BIO L229	(1)	General Ecology Lab
BIO 3320	(3)	Genetics
BIO L320	(1)	Genetics Lab
BIO 4484	(1)	Senior Seminar in Biological & Environmental Sciences
CHM 3342	(3)	Organic Chemistry I
CHM L342	(1)	Organic Chemistry I Lab
CHM 3343	(3)	Organic Chemistry II
CHM L343	(1)	Organic Chemistry II Lab
MTH 2210	(3)	Applied Statistics

Complete one of the following concentrations:

Environmental Science Concentration (32 semester hours)

BIO 1120	(3)	Survey of Environmental Sciences
BIO L120	(1)	Survey of Environmental Sciences Lab
BIO 3328	(3)	Environmental Pollution and Control
BIO L328	(1)	Environmental Pollution and Control Lab
BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

Complete 16 hours of adviser-approved upper-level courses in biology, marine biology, chemistry or mathematics.

Field Biology Concentration (32 semester hours):

BIO 4420	(4)	Field Vertebrate Zoology
BIO 4421	(3)	Population Ecology
BIO L421	(1)	Population Ecology Lab
BIO 4425	(4)	Field Botany

Complete 12 hours (three courses with labs) from the three categories below. At least one course must be taken from each of the three categories.

Zoology:

BIO 3307	(3)	Invertebrate Zoology
BIO L307	(1)	Invertebrate Zoology Lab
BIO 4405	(2)	Entomology
BIO L405	(2)	Entomology Lab

Botany:

BIO 3325	(3)	Plant Form and Function
BIO L325	(1)	Plant Form and Function Lab

Ecology:

BIO 4413	(3)	Limnology
BIO L413	(1)	Limnology Lab
BIO 4479	(3)	Environmental Assessment
BIO L479	(1)	Environmental Assessment Lab

*Complete an additional eight hours of adviser-approved **Biology or Marine Biology courses.***

Motion was made by Jerry Johnson to approve the changes.

Second was made by Tim Buckner.

Motion passed.

SORRELL COLLEGE OF BUSINESS

No Agenda Items

COLLEGE OF COMMUNICATION AND FINE ARTS

No Agenda Items

COLLEGE OF EDUCATION

No Agenda Items

COLLEGE OF HEALTH AND HUMAN SERVICES

No Agenda Items

Information Items: - Meeting Dates for the 2017 – 2018 catalog
**All meetings are in the
Hawkins Hall Conference Room (3rd floor)
at 3:00pm:**
August 25th
September 14th
October 20th
November 10th
December – electronic if needed