

**Troy University Undergraduate Academic Council Minutes**

**August 27, 2013**

**Meeting location: 336 Wallace Hall with additional locations by VTEL .**

**Call to Order**

UGAC Chair Sam Shelton called the meeting to order at 3:15 pm. Jo Ann Smith called the roll.

Chair recognized new members and thanked them for their participation.

**Voting Members Present-**

Marty Olliff, Scout Blum, Phillip Mixon, Ronald Shehane, Rodger Morrison, Festus Ndeh, Shellye Vardaman, Kelli Cliveland, Jana Slay, Cynthia Hicks and Ivan Merritt.

**Voting members absent-**

Karen Ross, Feng Sun, Meg Milligan, Rod Blackwell, Debra Hunter, Ruth Busby, Catherine Allard.

**Guest attending—**

Amanda Benson, Govind Menon, Janet Gaston, Jim Rinehart.

**Approval of June minutes:**

Minutes approved by electronic vote.

**Approval of Agenda**

Motion was made by Rodger Morrison to accept the agenda.

Seconded by Scout Blum.

Motion passed.

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

**COLLEGE OF HEALTH & HUMAN SERVICES**

**1. Amanda Benson was present to discuss the following changes to the Athletic Training Education Program.**

**Athletic Training**

AT 1101	(1)	Orientation to Athletic Training Education
AT 2201	(1)	Clinical Experiences in Athletic Training I
AT 2202	(1)	Clinical Experiences in Athletic Training II
AT 3301	(2)	Clinical Experiences in Athletic Training III
AT 3302	(2)	Clinical Experiences in Athletic Training IV
<b>AT 3360</b>	<b>(2)</b>	<b>Principles of Drug Therapy for Athletic Trainers</b>
AT 3394	(1)	Lifting Techniques for Conditioning and Rehabilitative Exercise
AT 3395	(3)	Care and Prevention of Athletic Injuries and Illnesses

AT L395	(1)	Care and Prevention of Athletic Injuries and Illnesses Lab
AT 3396	(3)	Evaluation of Athletic Injuries and Illnesses I
AT L396	(1)	Evaluation of Athletic Injuries and Illnesses I Lab
AT 3397	(3)	Evaluation of Athletic Injuries and Illnesses II
AT L397	(1)	Evaluation of Athletic Injuries and Illnesses II Lab
AT 3398	(2-3)	Organization and Administration for Athletic Trainers
AT 3399	(1-3)	General Medical Conditions Seminar
AT 4401	(3)	Clinical Experiences in Athletic Training V
AT 4402	(12)	Athletic Training Field Experience
AT 4447	(3)	Therapeutic Modalities
AT L447	(1)	Therapeutic Modalities Lab
AT 4448	(3)	Therapeutic Exercises
AT L448	(1)	Therapeutic Exercises 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
CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
KHP 2202	(2)	First Aid and Safety and CPRO
KHP 2240	(3)	Personal and Community Health
KHP 3315	(2)	Complementary and Alternative Therapies
KHP 3350	(3)	Psychology of Wellness
KHP 3352	(3)	Kinesiology
KHP 4474	(3)	Exercise Physiology
KHP L474	(1)	Exercise Physiology Lab
KHP 4476	(2)	Laboratory Pract in Exerc Perf
NSG 1105	(1)	Medical Terminology
NSG 2211	(3)	Human Nutrition
NSG 3309	(2)	Health Assessment
NSG 3310	(1)	Health Assessment Practicum
NSG 3315	(3)	Pathophysiology
PHI 2204	(3)	Ethics
PSY 2205	(3)	Psychology of Adjustment

Motion was made by Jana Slay to accept the changes to the Athletic Training Education Program.

Second was made by Shellye Vardaman.

Motion passed.

## COLLEGE OF ARTS AND SCIENCES

### **1. Govind Menon was present to discuss moving the Physical Science Minor to Inactive status on the Troy & Dothan Campuses.**

#### **PHYSICAL SCIENCE MINOR (19-20 HOURS)**

CHM 1142	(3)	General Chemistry I
CHM L142	(1)	General Chemistry I Lab
CHM 1143	(3)	General Chemistry II

CHM L143 (1) General Chemistry II Lab  
 Select one series:  
 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  
 Select an upper-level course in chemistry or physics (three to four semester hours).

Motion was made by Ivan Merritt to move the Physical Science Minor to Inactive status on the Troy and Dothan Campuses.

Second was made by Shellye Vardaman.

Motion passed.

**2. Govind Menon was present to discuss moving the Chemistry Program to Inactive status on the Troy & Dothan Campuses.**

**CHEMISTRY PROGRAM (51 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  
 Chemistry, Mathematics, and Physics Core Courses  
 CHM 1143 (3) General Chemistry II  
 CHM L143 (1) General Chemistry II Lab  
 CHM 2242 (3) Analytical Chemistry  
 CHM L242 (1) Analytical Chemistry 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  
 CHM 3381 (3) Physical Chemistry I  
 CHM L381 (1) Physical Chemistry I Lab  
 CHM 3382 (3) Physical Chemistry II  
 CHM 4444 (3) Advanced Inorganic Chemistry  
 CHM 4445 (3) Instrumental Analysis  
 CHM L445 (1) Instrumental Analysis Lab  
 MTH 1126 (4) Calculus II

Select one series:  
 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 with Calculus I

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

Select five hours of chemistry electives:

CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM L382	(1)	Physical Chemistry II Lab
CHM 4400	(3)	Special Topics
CHM 4403	(3)	Advanced Organic Chemistry
CHM L444	(1)	Advanced Inorganic Chemistry Lab
CHM 4491/2	(1-3)	Guided Independent Research
CHM 4493/4	(1-3)	Guided Independent Study
CHM 4499	(1)	Senior Research Seminar

Motion was made by Phillip Mixon to move the Chemistry Program to Inactive status on the Troy & Dothan Campuses.

Second was made by Festus Ndeh.  
Motion passed.

### 3. Govind Menon was present to discuss the changes to the Chemistry Major.

#### Chemistry Major (37 Hours)

##### 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
MTH 1126	(4)	Calculus II

##### Select one series:

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
*PHY 2262	(3)	Physics with Calculus I
*PHY L262	(1)	Physics with Calculus I Lab
*PHY 2263	(3)	Physics with Calculus II
*PHY L263	(1)	Physics with Calculus II Lab
TROY 1101	(1)	University Orientation

\*Chemistry majors minoring in Physics may replace these with free electives

#### Chemistry Core (34-36 Hours)

CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
CHM 2242	(3)	Analytical Chemistry
CHM L242	(1)	Analytical Chemistry 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
CHM 3381	(3)	Physical Chemistry I

CHM L381	(1)	Physical Chemistry I Lab
CHM 3382	(3)	Physical Chemistry II
CHM 4444	(3)	Advanced Inorganic Chemistry
CHM 4445	(3)	Instrumental Analysis
CHM L445	(1)	Instrumental Analysis Lab
<b>MTH 1126</b>	<b>(4)</b>	<b>Calculus II</b>

**Select three hours of chemistry electives:**

**Complete 6 hours of the following electives:**

CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM L382	(1)	Physical Chemistry II Lab
CHM 4400	(3)	Special Topics
CHM 4403	(3)	Advanced Organic Chemistry
CHM L444	(1)	Advanced Inorganic Chemistry Lab
CHM 4491/2	(1-3)	Guided Independent Research
CHM 4493/4	(1-3)	Guided Independent Study
CHM 4499	(1)	Senior Research Seminar
<b>MTH 2210</b>	<b>(3)</b>	<b>Applied Statistics</b>

**Students must select an 18 semester hour minor**

Motion was made by Rodger Morrison to accept the changes to the Chemistry Major.

Second was made by Phillip Mixon.

Motion passed.

## 2. Govind Menon was present to discuss the addition of Chemistry Education Major.

### **Chemistry Education Major (37 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

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##### **Area V Requirements**

IS 2241	(3)	Computer Concepts and Applications
MTH 1126	(4)	Calculus II
*PHY 2262	(3)	Physics with Calculus I
*PHY L262	(1)	Physics with Calculus I Lab
*PHY 2263	(3)	Physics with Calculus II
*PHY L263	(1)	Physics with Calculus II Lab
TROY 1101	(1)	University Orientation

**\*Chemistry majors minoring in Physics may replace these with free electives**

### **Chemistry Core (36 Hours)**

CHM 1143	(3)	General Chemistry II
CHM L143	(1)	General Chemistry II Lab
CHM 2242	(3)	Analytical Chemistry
CHM L242	(1)	Analytical Chemistry 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
CHM 3381	(3)	Physical Chemistry I
CHM L381	(1)	Physical Chemistry I Lab
CHM 3382	(3)	Physical Chemistry II
CHM 4444	(3)	Advanced Inorganic Chemistry
CHM 4445	(3)	Instrumental Analysis
CHM L445	(1)	Instrumental Analysis Lab

Complete 6 hours of the following electives:

CHM 3352	(3)	Biochemistry
CHM L352	(1)	Biochemistry Lab
CHM L382	(1)	Physical Chemistry II Lab
CHM 4400	(3)	Special Topics
CHM 4403	(3)	Advanced Organic Chemistry
CHM L444	(1)	Advanced Inorganic Chemistry Lab
CHM 4491/2	(1-3)	Guided Independent Research
CHM 4493/4	(1-3)	Guided Independent Study
CHM 4499	(1)	Senior Research Seminar
MTH 2210	(3)	Applied Statistics

Students must select an 18 semester hour minor

**Professional Studies:**

EDU 3310	(3)	The Professional Educator
EDU 3305	(3)	Microcomputers in Education
EDU 4471	(3)	Curriculum & Instructional Delivery
PSY 3303	(3)	Educational Psychology
RED 4484	(2)	Literacy IV
SCI 4474	(9)	Internship in Biology (6-12)
SCI 4481	(3)	Methods & Materials
SED 3346	(3)	Educational Assessment
SED 4400	(3)	Secondary Classroom Mgmt.
SED 4454	(3)	Internship Seminar In Secondary Education
SPE 3340	(3)	Nature & Needs

Motion was made by Rodger Morrison to accept the addition of Chemistry Education Major.

Second was made by Ivan Merritt.

Motion passed.

4. **Jim Rinehart was present to discuss the addition of the Minor in Aviation Operations.**

**Course Requirements:**

*Choose one (1) emphasis*

**Flight training Emphasis (18 sh):**

**Required Courses:**

AFT 2XXX	(2)	Private Pilot I Lab
AFT 2XXX	(2)	Private Pilot II Lab
AFT 2XXX	(3)	Commercial Pilot I Lab
AFT 2XXX	(3)	Commercial Pilot II Lab
AFT 2XXX	(2)	Certified Flight Instructor (CFI) Pilot Lab
AFT 2XXX	(2)	Instrument Pilot Lab
AFT 2XXX	(1)	Certified Flight Instructor (CFII) Pilot Lab

Choose 3 semester hours from the following courses:

AFT 2XXX	(1)	R22 Transition Currency Pilot Lab
AFT 2XXX	(1)	R44 Transition Currency Pilot Lab
AFT 2XXX	(1)	R66 Turbine Transition Currency Pilot Lab
AFT 2XXX	(1)	Bell 407 Turbine Transition Currency Pilot Lab
AFT 2XXX	(1)	Night Vision Goggle Flight Lab
AFT 2XXX	(1)	External Load Flight Lab
AFT 2XXX	(1)	Mountain Operations Flight Lab

Or

**Unmanned Aerial Systems Emphasis (18 sh):**

**Required Courses:**

AUS 2XXX	(3)	Unmanned Aerial Systems Overview
AUS 2XXX	(3)	Principles of UAS Design
AUS 2XXX	(3)	Principles of UAS Sensors & Sensing Systems
AUS 2XXX	(3)	Human Factors I UAS Operations & Accidents
AUS 2XXX	(3)	Legal & Ethical Considerations for UAS Operations
AUS 2XXX	(3)	UAS Piloting Familiarization

Motion was made by Rodger Morrison to accept the Minor in Aviation Operations.

Second was made by Phillip Mixon.

Motion passed.

**5. Jim Rinehart was present to discuss the new courses for the Minor in Aviation Operations.**

**New courses to be added to the Minor in Aviation Operations:**

**AUS 2XXX Unmanned Aerial Systems Overview (3)**

The purpose of this course is to provide the student with an overview of the Spectrum of UAS design, operations, and employment considerations. The student will study the developmental history of UAS systems. UAS operations within the National Airspace System and existing and proposed Federal Aviation Administration regulations will be extensively covered. Students will understand the basic physics of atmospheric flight.

**AUS 2XXX Principles of UAS Design (3)**

An in-depth look at military and civilian UAS designs. The Northrop-Grumman Global Hawk, General Atomics Predator, micro-UAVs and U.S. Army small reconnaissance vehicles will be featured.

**AUS 2XXX Principles of UAS Sensors & Sensing Systems (3)**

Course will cover the design considerations, packaging, and employment of various sensors and systems for UAS. Electro-optical, Forward Looking Infrared, low light, electronic sensing, and other remote sensors will be featured. Systems Integration Factors in Platform Selection is included.

**AUS 2XXX Human Factors in UAS Operations & Accidents (3)**

The physical, emotional, and environmental aspects of military and civilian UAS operations will be analyzed. The impact of human error including workload, fatigue, poor situational awareness, inadequate training, lack of crew coordination and poor ergonomic design on increasing UAS accident rates will be discussed. The effects of the unique remote piloting environment on mental workload will be considered.

**AUS 2XXX Legal & Ethical Considerations for UAS Operations (3)**

Discuss FAA guidelines and ethical issues, including international laws of war. Case studies on drone strikes, police surveillance, and other relevant topics.

<b>AUS 2XXX</b>	<b>Real World Applications (3)</b> Using UAS technology in the real world, such as law enforcement, national security, public affairs, natural resources, forest fire detection, remote sensing, aerial surveillance, oil-gas exploration, transportation, conservation, and scientific research. Case studies in actual applications.
<b>AUS 2XXX</b>	<b>UAS Piloting Familiarization (3)</b> This will be a laboratory split between construction and actual UAS piloting. The student will learn basic flight and mission planning techniques. <i>Prerequisites:</i> AUS 2XXX Principles of Design, AUS 2XXX UAS Real World.
<b>AFT 2XXX</b>	<b>Private Pilot 1 Lab (2)</b> This course covers aviation fundamentals as required by FAA regulations for students pursuing a Private Pilot Certificate. Ground topics covered include helicopter components and systems, instruments, basic aerodynamics, principles of helicopter flight, airport and heliport operations, performance and limitations, airspace, FAR/AIM, aviation weather, navigational assistants, communication, and flight planning. The flight portion of the course develops basic aeronautical skills necessary for the student's first solo flight. Topics covered include gaining proficiency in all procedures and maneuvers necessary for solo flight, off-airport operations, night traffic patterns, hazardous flight conditions, and emergency procedures. This course will consist of 40 flight hours and up to 80 flight instructor hours for ground and pre/post flight briefings. <i>Prerequisites:</i> <i>Permission of department chair and instructor.</i>
<b>AFT 2XXX</b>	<b>Private Pilot 2 Lab (2)</b> This course covers aviation fundamentals as required by FAA regulations for students pursuing a Private Pilot Certificate. Ground topics covered include review and understanding of all aircraft systems and flight requirements necessary to attain a Private Pilots Certificate to include flight planning and night operations. The flight portion of this course will develop requisite aeronautical skills, knowledge and proficiency to the standards necessary to take the FAA Private Pilot Practical Exam. In addition, students will also train in night and cross-country flight operations. This course will consist of 40 flight hours and up to 50 flight instructor hours for ground and pre/post flight briefings. <i>Prerequisites:</i> <i>2XXX Private Pilot, permission of chair and instructor.</i>
<b>AFT 2XXX</b>	<b>Commercial Pilot 1 Lab (3)</b> This course covers aviation fundamentals as required by FAA regulations for students engaging in a Commercial Pilot Certificate. Topics covered include a more in-depth study and understanding of aerodynamics of the aircraft, helicopter components and instruments, principles of flying, flight planning, weather, navigation charts, communication systems, and FAA regulations. The flight portion of this course will further develop private pilot level skills and introduce fundamental commercial flight skills and knowledge necessary to safely operate a helicopter in VFR environments, day and night cross country flights, solo flights and as PIC. Topics covered include flight planning, off-airport operations, basic commercial maneuvers, instrument flight and aeronautical decision making. This course will consist of 60 flight hours and up to 55 flight instructor hours for ground instruction and pre/post flight briefings. <i>Prerequisite:</i> <i>Private Pilot Certificate-Rotorcraft-Helicopter, permission of chair and instructor.</i>
<b>AFT 2XXX</b>	<b>Commercial Pilot 2 Lab (3)</b> This course covers the study of commercial flight fundamentals as required by FAA regulations for students pursuing a Commercial Pilot Certificate. Ground topics covered include a review of prior Private Ground School and Commercial Pilot 1 material plus review CFRs related to commercial pilot operation, Publications, Certificates, Documents and Maintenance, Aeromedical factors, Aeronautical Decision Making and Judgment, Advanced Flight Maneuvers, High Altitude Operations and Emergency procedures. The flight portion of this course will develop essential flight skills, knowledge and proficiency to Practical Test Standards to prepare for the FAA Commercial



Pilot Check Ride. Emphasis will be given to training in advanced helicopter commercial maneuvers and night flight mastery. This course will consist of 60 flight hours and up to 55 flight instructor hours for ground instruction and pre/post flight briefings.  
*Prerequisites: Commercial Pilot 1 lab, permission of chair and instructor.*

**AFT 2XXX Certified Flight Instructor (CFI) Pilot Lab (2)**

This course covers the study of flight instruction fundamentals as required by FAA regulations for students pursuing a Certified Flight Instructor certificate. Ground topics covered include fundamentals of instruction, the learning process, the teaching process, student evaluation and testing, course development, lesson planning and classroom training techniques. The flight portion of this course will develop the aeronautical skill and experience necessary to meet the requirements for a Certificated Flight Instructor certificate with a rotorcraft category and helicopter class rating. Students will learn how to manipulate the helicopter from the instructor's seat while reviewing all required flight maneuvers and emergency maneuvers in order to instruct a student. This course will consist of 40 flight hours and up to 80 flight instructor hours for ground and pre/post flight briefings.  
*Prerequisites: Commercial Pilots Certificate-Rotorcraft Helicopter, permission of chair and instructor.*

**AFT 2XXX Instrument Pilot Lab (2)**

This course covers the study of instrument flight fundamentals as required by FAA regulations for students pursuing an Instrument rating. Ground topics covered include being introduced to principles of basic attitude instrument flight and the function of navigational aids/receiving equipment in the IFR environment. This includes holding procedures, FAR/AIM regulations, ATC communication, and IFR approach procedures. As well as emergency flight procedures and meteorology affects for IFR flight. The flight portion of the course will develop requisite aeronautical skills, knowledge and proficiency to the standards necessary to take the FAA Instrument Practical Exam. Flight topics covered include basic attitude flying, emergency procedures, IFR navigational procedures, IFR approaches, holdings, ILS and VOR systems, and cross country flight via instrument navigation. This course will consist of 45 flight hours and up to 42.5 flight instructor hours for ground and pre/post flight briefings. *Prerequisites: Private Pilots Certificate - Rotorcraft Helicopter, permission of chair and instructor.*

**AFT 2XXX Certified Flight Instructor Instrument (CFII) Pilot Lab (1)**

This course covers the study of knowledge, skill, and the aeronautical experience necessary to meet the requirements for a Certified Flight Instructor Instrument Rotorcraft Helicopter Certificate. Ground topics covered include review of the Fundamentals of Instruction, principles of attitude instrument flying, ATC procedures, meteorology, and IFR navigational charts. The applicant will obtain the instructional knowledge required to teach these subjects including the recognition, analysis, and correction of common student errors. During the flight training, appropriate maneuvers and procedures will be practiced using visual and instrument references, use proper CRM techniques, exhibit positive exchange of control procedures, and display sound ADM skills. Additionally, the student will obtain the instructional knowledge required to teach these subjects including the recognition, analysis, and correction of common student errors. This course will consist of 25 flight hours and up to 52.5 flight instructor hours for ground and pre/post flight briefings.  
*Prerequisites: Commercial Instrument Pilots Certificate- Rotorcraft Helicopter, permission of chair and instructor.*

**AFT 2XXX R22 Transition/Currency Pilot Lab (1)**

This course will prepare the student to be able to operate the Robinson R22 helicopter in VFR operations. The course is intended to familiarize/re-familiarize the student with R22 aircraft systems, operating procedures and emergency procedures. This course will consist of 10 flight hours and up to 25 instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate- Rotorcraft Helicopter, permission of chair and instructor.*

- AFT 2XXX R44 Transition/Currency Pilot Lab (1)**  
 This course will prepare the student to be able to operate the Robinson R44 helicopter in VFR operations. The course is intended to familiarize/re-familiarize the student with R44 aircraft systems, operating procedures and emergency procedures. This course will consist of 10 flight hours and up to 25 instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate- Rotorcraft Helicopter, permission of chair and instructor.*
- AFT 2XXX R66 Turbine Transition/Currency Pilot Lab (1)**  
 This course will prepare the student to be able to operate the Robinson R66 turbine helicopter in VFR operations. The course is intended to familiarize/re-familiarize the student with turbine aircraft systems, operating procedures, limitations and emergency procedures. This course will consist of 10 flight hours and up to 25 instructor hours for flight, pre/p briefings and ground lessons. *Prerequisites: Private Pilot Certificate-Rotorcraft Helicopter, permission of chair and instructor.*
- AFT 2XXX Bell 407 Turbine Transition/Currency Pilot Lab (1)**  
 This course will prepare the student to operate the Bell 407 turbine helicopter in VFR operations. The course is intended to familiarize/re-familiarize the student with turbine Transition aircraft systems, operating procedures, limitations and emergency procedures. This course Currency Pilot Lab will consist of 10 flight hours and up to 30 instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate-Rotorcraft Helicopter, permission of chair and instructor*
- AFT 2XXX Night Vision Goggle Flight Lab (1)**  
 The Night Vision Goggle (NVG) course will prepare the student to safely operate a helicopter Night Vision at night utilizing Night Vision Goggles. This course will consist of 10 flight hours and up to 30 Goggle Flight Lab instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate-Rotorcraft Helicopter, permission of chair and instructor.*
- AFT 2XXX External Load Flight Lab (1)**  
 The external load course will prepare the student to safely operate a helicopter with a jettisonable external load. This course will consist of 15 flight hours and up to 38 instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate-Rotorcraft Helicopter, permission of chair and instructor.*
- AFT2XXX The Mountain Operations Flight Lab (1)**  
 The Mountain Operations course will only be offered at the Hawaii location. The course will prepare the student to safely operate a helicopter in mountainous terrain, while accounting for decrease aircraft performance due to increased density altitudes. This course will consist of 15 flight hours and up to 38 instructor hours for flight, pre/post briefings and ground lessons. *Prerequisites: Private Pilot Certificate- Rotorcraft Helicopter, permission of chair and instructor.*

Motion was made by Phillip Mixon to accept the new courses for the Minor in Aviation Operations.

Second was made by Ivan Merritt.

Motion passed.

## **Information Items**

Hal Fulmer brought before the council that it is time to elect a new chair for UGAC. He addressed the work of the Council over the last two years and thanked Sam for all of his efforts and guidance.

COE is still holding elections for two more representatives. SCOB is looking to fill one more slot as well.

Next meeting of Council will be Sept 24th at 3:00 pm, Oct. 15<sup>th</sup> and Nov. 19<sup>th</sup> in Wallace Hall.

Motion was made by Shellye Vardaman to adjourn at 4:00 p.m.

Second was made by Ivan Merritt.

Motion passed.