



Minutes
New Programs and Curriculum Committee
March 10, 2011 @ 8:30 am

In attendance: Dr. Mary Wyatt, Dr. Larry Stokes, Dr. Jonathan Lambright, Dr. Derrek Dunn, Dr. Jane Gates, Mr. Timothy Cranford, Prof. Nicholas Silberg, Dr. Reginald Leseane, Dr. Ulysses Brown, Dr. Suman Niranjana, Dr. Tamara Friedrich, and Mr. Ruben Chiza.

Call to Order

The meeting was called to order at 8:35 a.m. by Dr. Mary C. Wyatt

Minutes

The minutes of the March 3, 2011 meeting were approved with no corrections.

Request for New Agenda Items

- Bachelor of Engineering Technology

Old Business

- None

New Business

Mathematics

Math 3000 – Introduction to Bio-Statistics

Summary: This course is designed to strengthen the biomedical/behavioral science research competencies and skills of Savannah State University students and to help them progress to biomedical/behavioral science research careers. This course examines Bio-statistics in biomedical/behavioral science. Emphasis will be on the development of critical thinking skills and health disparity data analysis applications with computer software. The phrase “evidence-based medicine” is often applied to describe the compilation or reliable, valid and comprehensive information about medical care (Sackett et al., 1996). This course is designed to provide the student with the Bio-statistical tools used in research into diagnostic tests, prognostic factors, therapeutic and prophylactic procedures, public health, medical economics as well as clinical and epidemiological topics. In all of the previously mentioned topics, bio-statistics is an essential element which helps provide the evidence for reliable and valid decisions.

Discussion:

- Course is a collaboration between mathematics and biology and is being taught out of the mathematics department;
- No new faculty or resources needed;
- NSF-RIMI grant related course;
- Could this course be an option in Area D? Yes if the course number were changed to reflect a lower level course, but no because of current course content;
- Calculus II is being considered for inclusion in Area D;

-Approved

Engineering Technology and Mathematics

ENGT 4903 – Special Topics

Summary: A discussion of current topics in Civil Engineering Technology, Electronics Engineering Technology, or Computer Science Technology. The special topics course will allow the programs to offer specialized courses in emerging fields of study. The special topics course may potentially be used to satisfy elective requirements.

MATH 4904 – Special Topics

Summary: A discussion of current topics in Mathematics. The special topics course will allow the mathematics program to offer specialized courses in emerging fields of study. The special topics course may potentially be used to satisfy elective requirements.

Discussion:

- There are currently no special topics courses on the books in either area;
- Special topics courses are typically numbered 4903, but MATH 4093 is already on the books;
- Can the courses be cross listed? Dr. Lambright prefers them to remain separate listings;

-Approved

Electronics Engineering Technology

ELET 3302 – Mechatronics

Summary: This course will model the performance characteristics and applications of microprocessors, analog and digital electronics to modern mechatronics systems and intelligent manufacturing – particularly smart sensors, Due to development of fiber optics and other light technology, optical engineering and fiber optics are being integrated into the course. The course will provide comprehensive and accessible coverage of the evolving field of mechatronics for electrical engineering technology students. Students will explore electrical circuits, solid state devices, digital circuits and motors – all which are fundamental to the understanding of mechatronics systems.

ELET 4412K – Instrumentation and Measurement

Summary: The purpose of this course is to introduce students to Instrumentation and Measurement. The course will provide comprehensive and applied coverage of instrumentation and measurement. Students will explore Measurement Systems, Signal Conditioning, Noise, AC/DC Null Measurements, Application of Sensors, Basic Electrical Measurements, and examples of design of measurement systems- all which are fundamental to the understanding of Instrumentation and Measurements.

ELET 4612K – Industrial Automation and Process Control

Summary: The purpose of this course is to introduce students to Industrial Automation and Process Control. Students will explore Programmable Logic Controllers, Sensors, Robotics, Process Control and Computer Numerical Control Machines – all which are fundamental to the understanding of Industrial Automation and Process Control.

Discussion:

- Courses are a part of a collaboration between Savannah State and Savannah Technical College;
- Course additions;
- No room for electives in current grid;
- No additional faculty or resources needed;

-Approved

Computer Science Technology

CSCI 2235 – Comparative Programming Language

Summary: We would like to propose deleting CSCI 2235 (Comparative Programming Language) from the requirements for the Computer Science Technology degree program. The course is no longer relevant to the program and has been replaced with up to date course offerings.

CSCI 3414 – Software Engineering

Summary: We would like to propose deleting CSCI 3414 (Software Engineering) from the requirements for the Computer Science Technology degree program. The course is no longer relevant to the program and has been replaced with up to date course offerings.

CSCI 3800 – Computer Architecture

Summary: We would like to propose deleting CSCI 3800 (Computer Architecture) from the requirements for the Computer Science Technology degree program. The course is no longer relevant to the program and has been replaced with up to date course offerings.

CSCI 4801 – Project Design

Summary: We would like to propose deleting CSCI 4801 (Project Design) from the requirements for the Computer Science Technology degree program. The course is no longer relevant to the program and has been replaced with up to date course offerings.

CISM 3137 – System Analysis and Design

Summary: This proposal is being submitted to add CISM 3137, System Analysis and Design as an elective option in the Computer Science Technology major grid. CISM 3137, System Analysis and Design is an existing class in the CISM program and is a 3 credit hour class.

CISM 3325 – Data Communications and Computer Networks

Summary: This proposal is being submitted to add CISM 3325, Data Communications and Computer Networks as an elective option in the Computer Science Technology major grid. CISM 3325, Data Communications and Computer Networks is an existing class in the CISM program and is a 3 credit hour class.

ELET 3501 – Control Systems

Summary: This proposal is being submitted to add ELET 3501 Control Systems as an elective option in the Computer Science Technology major grid. ELET 3501 is an existing class in the ELET program and is a 3 credit hour class.

ELET 4611 – Fiber Optics

Summary: This proposal is being submitted to add ELET 4611 Fiber Optics as an elective option in the Computer Science Technology major grid. ELET 4611 is an existing class in the ELET program and is a 3 credit hour class.

Discussion:

- To bring the curriculum up to date, four courses are being added and four courses are being deleted.

-Approved

Civil Engineering Technology

ENGT 3201 – Applied Mathematics

Summary: We would like to propose eliminating ENGT 3201 (Applied Mathematics) from the Civil Engineering Technology program requirements. The course is no longer relevant to the CIVT program and the subject material is covered in the calculus classes.

MECT 3101K – Engineering Materials

Summary: We would like to propose eliminating MECT 3101K (Engineering Materials) from the Civil Engineering Technology program requirements. The necessary subject material for civil engineering technology majors will be incorporated in CIVT 3201 (Civil Engineering Materials).

CIVT 4301 – Urban Planning

Summary: We would like to propose eliminating CIVT 4301 (Urban Planning) from the Civil Engineering Technology program requirements. The course is no longer relevant to the CIVT program.

CIVT 3101K – Surveying

Summary: We would like to propose reducing CIVT 3101K (Surveying) from 5 credit hours to 4 credit hours. The subject material can be covered in 4 credit hours.

CIVT 3601K – Soil Mechanics and Foundation

Summary: We would like to propose reducing CIVT 3601K (Soil Mechanics and Foundation) from 5 credit hours to 4 credit hours. The subject material can be covered in 4 credit hours.

CIVT 3301K – Hydraulics and Engineering Hydrology -----> Fluid Mechanics

Summary: We would like to propose renaming CIVT 3301K from Hydraulics and Engineering Hydrology to Fluid Mechanics. The title is more representative of the course content.

CIVT 4101K – Structural Design -----> Steel Design

Summary: We would like to propose renaming CIVT 4101K from Structural Design to Steel Design and increase the number of hours from 3 credit hours to 4 credit hours. The title is more representative of the course content and it takes 4 hours to cover the necessary course material.

CIVT 4111K – Structural Design II -----> Reinforced Concrete Design

Summary: We would like to propose renaming CIVT 4111K from Structural Design II to Reinforced Concrete Design and increase the number of hours from 3 credit hours to 4 credit hours. The title is more representative of the course content and it takes 4 hours to cover the necessary course material.

CIVT 4201 – Environmental Engineering -----> Environmental Engineering I

Summary: We would like to propose renaming CIVT 4201 from Environmental Engineering to Environmental Engineering I. The title is more representative of the current proposed course sequence.

CIVT 4211 – Environmental Pollution Control -----> Environmental Engineering II

Summary: We would like to propose renaming CIVT 4211 from Environmental Pollution Control to Environmental Engineering II. The title is more representative of the current course content.

CIVT 3201K – Civil Engineering Materials

Summary: We would like to propose increasing CIVT 3201K (Civil Engineering Materials) from 2 credit hours to 3 credit hours. This increase will incorporate the materials that would have been covered in MECT 3101K.

CIVT 3311 – Engineering Hydrology

Summary: This proposal is being submitted to increase the number of elective class options that civil engineering technology majors can take to complete their degree. Adding elective classes will assist with the issue of students having to wait longer to take required classes.

CIVT 3501 – Civil Engineering Computing Practices

Summary: This proposal is being submitted to increase the number of elective class options that civil engineering technology majors can take to complete their degree. Adding elective classes will assist with the issue of students having to wait longer to take required classes that on hard wired on the grid.

CIVT 4350 – Civil and Environmental Systems Engineering

Summary: This proposal is being submitted to increase the number of elective class options that civil engineering technology majors can take to complete their degree. Adding elective classes will assist with the issue of students having to wait longer to take required classes.

CIVT 4401 – Senior Design/Capstone for Engineering Technology Program

Summary: In accordance with requirements from our professional accrediting body ABET, we are submitting a proposal to offer a senior design or capstone class for civil engineering technology, electronics engineering technology and computer science technology majors. The senior design course is three semester hour credits. Students are divided into several interdisciplinary teams based on their interest. Each team will form a company and write a proposal to the instructor in their area of interest. Students who worked on special projects during their internship can submit a proposal to continue working on that project given that they have a mentor from the industry. Once the proposal is approved by the instructor, students are set to do the technical design of the project. Each team is required to present their project orally as well as submit documents to support their design work. Students are evaluated by a team that consists of instructors as well as engineers from the industrial advisory board committee.

Discussion:

- It was asked what the difference in the L and K designations behind the course name was? L is for a separate lab and K is for an included lab;
- The degree needs to be brought down from 133 to 128 credit hours for completion;

-Approved

Bachelor of Engineering Technology

Summary: The Bachelor of Engineering Technology (BET) combines and emphasizes a study in fundamental and advanced areas of mathematics, science and engineering. This interdisciplinary approach will expose and prepare students to a variety of solution encountered by practicing engineers. BET graduates will be equipped with the knowledge and broad background necessary to function effectively in a multidisciplinary problem-solving environment. As graduates of the proposed BET program, students will achieve a level of mastery in engineering and design that enables them to pursue successful careers in industry, consulting, or public service, or further their education.

Objectives of the program

The objective of the proposed Bachelor of Engineering Technology program is to be an instructional program that prepares individuals to apply mathematical and scientific principles to the solution of practical problems. The proposed BET program has the following educational student learning outcomes. BET graduates will have:

- an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;
- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;
- an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;
- an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;
- an ability to function effectively as a member or leader on a technical team;
- an ability to identify, analyze, and solve broadly-defined engineering technology problems;
- an ability to apply written, oral, and graphical communication in both technical and nontechnical environments; and an ability to identify and use appropriate technical literature;
- an understanding of the need for and an ability to engage in self-directed continuing
- professional development;
- an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
- a knowledge of the impact of engineering technology solutions in a societal and global context; and
- a commitment to quality, timeliness, and continuous improvement;

Discussion:

- No new resources or faculty required;
- New degree would need BoR approval;
- The degree program should be made flexible like the Applied Science degree;
- The proposal should be fast tracked because this is a program SSU previously offered;
- Dr. Dunn stated once the program is approved, then we can add degree concentrations/options in house;
- Degree program was previously terminated due to low productivity;
- Productivity issues are addressed in the new proposal
- The degree is 128 hours;
- Technical writing course should be changed from 2 hrs to 3 hrs;

-Approved**Global Logistics and International Business (G-Lib)**

Summary: COBA is starting a new Major (concentration) and a Minor in global logistics and international business. For this new major, COBA would like to offer few new courses, and also proposing to change the name of few existing courses in marketing, and management. COBA also wants to change the name of courses by adding certain contents that are relevant to the proposed name change. This way COBA could effectively use the existing resources without introducing all new courses.

-Approved**Discussion:**

- Many local businesses are on board with offering the degree; JCB, Gulfstream, Ranier, Kia Motors, Coastal Logistics, Target and IKEA Distribution, etc.;
- Applying for a grant to generate funding for the planned overseas trips;
- Trips would be taken the last two weeks of the semester or over the summer to lessen impact on students' other courses;
- Proposal calls for business language courses, Dr. Gates wants to know who will teach the courses;
- It was explained that the language skills would be taught by Business Faculty, more like conversation lingo and business terms as opposed to learning the entire language;
- Can a minor be offered without a major due to wording in BoR policy? A concentration is not a major;
- Tie in the international business course as option like Global Issues to relieve overcrowding in CLASS;
- Mr. Silberg suggested college algebra be listed as a pre-requisite to econ;
- International business courses could be tie in to International Education to provide additional opportunities for students; Naniuzeyi will be contacted to explore options;

-Approved**Management**

In this proposal we are outlining our revision of the management curriculum within the College of Business. We believe that with this revision students will now have the opportunity to focus their studies into a specialized area if they choose. Additionally, these focus areas now include topics of significant importance that were not previously covered and that are critical to managers in the modern business world. In brief, we are proposing to restructure into two focus areas – Employee Development and Business Development. The six core courses would be composed of old, revised and entirely new courses. A summary of these changes is below:

Employee Development

MGNT 3300 Organizational Behavior & Theory (Existing)

MGNT 4165 Human Resource Management (Existing)

MGNT xxxx Leadership in Organizations (New)

Business Development

MGNT 3190 Global Supply Chain Management (Revised)

MGNT 3196 Entrepreneurship & Small Business Management (Revised)

MGNT 4168 International Business Management (Existing)

In addition to the changes to the core management classes, we are also proposing changes to the management electives so that they also fall into the two focus areas above. These electives will be a mixture of revisions to existing courses and entirely new courses.

Employee Development

MGNT 4166 Human and Labor Relations (Revised)

MGNT xxxx Staffing, Training & Development (New)

Business Development

MGNT xxxx Creativity and Entrepreneurship (New)

MGNT xxxx Social Entrepreneurship (New)

Discussion:

- Will provide flexibility with the MBA in some areas;
- Most courses are electives, only one leadership course is required;

-Approved w/ changes

MBAP 6092 - Organizational Leadership

Summary: This course will provide both a theoretical and practical review of leadership within organizations. Students will be exposed to basic leadership theory and research while also being given real-world examples through cases and interaction with practitioners.

Students will also be asked to apply these theories through in-class activities and projects. This course will provide students with an understanding of leadership theory and will develop their leadership skills in decision-making, communicating, conflict management, motivation, and leading teams.

Discussion:

- New course in organizational leadership
- Course will replace three one hour seminar courses currently on the books;
- Refer course to Graduate Council;

-Approved

Accounting

ACCT 2103 – Working with the Accounting Cycle

ACCT 3111 – Intermediate Financial Accounting I

Summary: Create a new accounting course (ACCT 2103) and add ACCT 2103 as a prerequisite to existing course (ACCT 3111).

-Approved

Finance

Summary: The objectives of the Finance Major are threefold:

1. To provide students with the financial knowledge essential for a good understanding of the challenges faced by the firm's financing in the dynamic world of finance; to prepare them and enable them to pursue and succeed in such careers as corporate finance, investments, banking, and financial planning.
2. To enhance the competitiveness of the Savannah State University College of Business Administration with regional accredited and AACSB accredited business programs, which offer students the opportunity to pursue finance majors and finance careers.
3. To serve the needs of our diverse regional, national, and global business community.

To meet these objectives we are proposing a total of eight courses (24 hours). Of the eight, seven are required and constitute the finance core. Students have one elective to be chosen from a portfolio of four electives. Additionally, we are proposing that students majoring in Finance be required to take Accounting 2103 in lieu of the three hour elective in Area G.

Seven Required Core Courses are:

FINC 3159- Real Estate

FINC 3156- Intermediate Financial Management I

FINC 4155- Intermediate Financial Management II

FINC 3157- Investments

FINC 4156- Capital Markets and Institutions

FINC 4159- Financial Statement Analysis

FINC 3160 - International Finance

One elective chosen from the following:

ACCT 3115- Cost/Managerial Accounting

FINC 4157 - Security Analysis and Portfolio Management

FINC 4160 - Futures and Options Markets

FINC 3158 - Risk Management

-Approved

Announcements and/or comments

- none

Adjourn