The meeting began at 8:00 a.m.

The Chair welcomed the members of the Committee.

The following items were withdrawn from the Agenda and not considered.

1. Department of Computer Science  
   a. Adding a New Course to the Curriculum  
      i. CSE 1500 (Applied Discrete Math)  
   b. Changing Restrictions or Credits in a Course  
      i. CSE 2010 (Algorithms and Data Structures)  
      iii. CSE 3411 (Software Testing 1)

Consent Agenda:  

The following items remained on the Consent Agenda and passed unanimously.

1. Department of Computer Science  
   a. Adding a New Course to the Curriculum  
      ii. CSE 2120 (Computer Organization and Machine Programming)  
      iv. CSE 3120 (Computer Architecture and Assembly Programming)  
   b. Changing Restrictions or Credits in a Course  
      ii. CSE 2050 (Programming in a Second Language)  
      iv. CSE 4001 (Operating System Concepts)  
      v. CSE 4415 (Software Testing 2)

2. Department of Civil Engineering – Changing Restrictions or Credits in a Course  
   CVE 3030 (Fluid Mechanics)

3. Department of Marine and Environmental Systems – Adding a New Course to the Curriculum – MET 4407 (Marine Meteorology)

4. Department of Mechanical and Aerospace Engineering  
   a. Adding a New Course to the Curriculum – MAE 4263 (Space Flight Mechanics)
   b. Changing Graduation Requirements in a Major or Minor – Aerospace Engr.

5. Department of Humanities and Communications – Adding a New Major or Minor to the Curriculum – Humanities/Prelaw
6. Department of Biological Sciences
   a. Adding a New Course to the Curriculum
      i. ISC 1500 (Introduction to Sustainability)

7. College of Business – Extended Studies Division
   a. Adding a New Course to the Curriculum
      i. BUS 3550 (Supply Chain Management)
      ii. BUS 3551 (Material Acquisition Management)
      iii. BUS 3553 (Management of Transportation Systems)
      iv. BUS 4550 (Advanced Techniques in Supply Chain Management)
      v. BUS 4552 (Inventory Control Management)
      vi. BUS 4553 (Integrated Logistics Management)
      vii. BUS 4555 (Procurement and Contract Management)

8. College of Business
   a. Adding a New Course to the Curriculum
      i. BUS 3511 (Systems Analysis and Design)
      ii. BUS 3521 (Introduction to Database Systems)
      iii. BUS 4521 (Advanced Database Systems)
      iv. BUS 4522 (Database Administration)
      v. BUS 4532 (Information Security Management)
   b. Changing Restrictions in a Course
      i. BUS 3517 (Information Assurance)
      ii. BUS 4508 (Web-Based Technologies)
      iii. BUS 4516 (Global Strategic Management of Technology)
   c. Adding a New Major or Minor to the Program – Information Systems

10. Department of Mathematical Sciences – Adding a New Course to the Curriculum
    MTH 3210 (Introduction to Partial Differential Equations and Applications)

11. Department of Psychology
    a. Adding a New Course to the Curriculum
       i. CRM 4900 (Practical Problem Solving in Criminal Justice 1)
       ii. CRM 4901 (Practical Problem Solving in Criminal Justice 2)
    b. Changing Restrictions or Credits in a Course
       i. PSF 4106 (Crisis and Conflict Resolution)
       ii. PSY 3100 (Law and Psychology)
       iii. PSY 3344 (Multicultural Issues)
       iv. CRM 4107 (Victimology)
       v. CRM 3407 (White Collar Crime)
       vi. CRM 3511 (Introduction to Crime Analysis)
       vii. PSY 4541 (Culture and Psychology)
       viii. PSY 4511 (Program Development and Evaluation)
       ix. PSY 4515 (Psychology Honor’s Thesis)
       x. PSY 4462 (Clinical and Community Psychology)
       xi. PSY 4413 (Psychology Undergraduate Research)
xii. PSY 3542 (Survey of Industrial/Organizational Psychology)  
xiii. PSY 3522 (Human Cognition: Theory and Application)  
xiv. PSF 4551 (Advocacy)  
xv. PSF 4791 (Critical Issues in a Child Advocacy)  
xvi. PSF 4562 (Forensic Clinical Psychology)  
xvii. PSF 4515 (Advanced Special Topic in Forensic Psychology)  
xviii. PSF 3551 (Integrated Theories of Crime)  
ix. PSF 3511 (Introduction to Crime Analysis)  
xx. PSY 3423 (Physiological Psychology)  
xxi. PSF 2551 (Survey of Forensic Psychology)  

12. Department of Physics and Space Sciences  
a. Adding a New Course to the Curriculum – PHY 1999 (Physical Concepts for Construction)  
b. Changing Restrictions or Credits in a Course – PHY 2091 (Physics Laboratory 1)  
c. Changing Graduation Requirements in a Major/Minor  
   i. Astronomy and Astrophysics  
   ii. Pre-Professional Physics  
   iii. Physics  
   iv. Solar, Earth and Planetary Sciences  

13. College of Engineering  
a. Changing Restrictions or Credits in a Course  
   i. CON 2000 (Statics and Materials for Construction)  
   ii. CON 3002 (Building Mechanical and HVAC Systems)  
   iii. CON 4001 (Building Electrical and Electronic Systems)  
   iv. CON 4003 (Construction Estimating, Bidding and Value Engineering)  

14. College of Aeronautics – Adding a New Course to the Curriculum – AVF 4500 (Commercial Pilot Certificate and Type Rating)  

Agenda Discussion Items  
The following item was discussed and passed unanimously.  
1. Department of Computer Science  
a. Adding a New Course to the Curriculum  
   iii. CSE 2500 (Combinatorics and Graph Theory)  

A concern was raised that this course appears to be identical in both name and content to MTH 3051 (Combinatorics and Graph Theory). It was understood that Mathematical Sciences (Math. Sci.) had intended to change the course number of MTH 3051 to MTH 2500, and Computer Sciences (CS) was making its change to conform with the anticipated change from Math. Sci. However, for reasons explained by Math. Sci., the change in the math course did not occur. It was further stated that the concern over the identical course could be alleviated by simply changing the offered course’s title. CS indicated it was willing to change the course title and suggested “Intermediate Discrete
Math.” It was noted that there are other courses already in the University Catalog (Catalog) that have the same name and contain essentially the same content [e.g. MAE 3161 (Fluid Mechanics), CVE 3030 (Fluid Mechanics), OCE 3030 (Fluid Mechanics)]. A comment was made that a greater concern might be to have courses identical in content but with different titles in the Catalog. Ultimately, the objection to this course was withdrawn and the course passed unanimously with its originally-proposed title.

The following items were discussed and passed unanimously, as amended.
1. Department of Computer Science
c. Changing Graduation Requirements in a Major/Minor
   i. Computer Science
   ii. Software Engineering

A concern was raised that the forms outlining the changes to these programs were not descriptive enough. CS offered amended forms that clearly outline the intended changes. A copy of each of these forms is attached in the Appendix to the minutes.

The following items were discussed and passed unanimously, as amended.
6. Department of Biological Sciences
   a. Adding a New Course to the Curriculum
      ii. ISC 4000 (Applied Sustainability)
   b. Adding a New Major or Minor to the Curriculum – Minor in Sustainability

In the documentation accompanying the new minor forms, it states that the minor will consist of 18-21 credits of course work. While this is consistent with the text in the Catalog, it was pointed out that the reason the Catalog requirements state 18-21 credits hours is because some minors may require or allow 4-credit-hour courses, raising the total number of credit hours for a minor above the minimum of 18. It was thus suggested that the Sustainability minor requirements be changed to “[t]he minor will consist of six cross-disciplinary courses totaling 18 credits.” Second, the documentation also stated that each course consist of 3-4 credits hours. This was changed to a minimum of 3 credit hours. Third, the minor requirements indicate that a student pursuing this minor would take an upper-division course that is offered within their own College, but could take lower-division courses in other Colleges to satisfy program requirements. It was suggested that the minimum requirements be lowered to allow the lower-division courses in all four areas of sustainability, but that an advisor could substitute an upper-division course from the student’s College as appropriate, noting that the lower-division courses may overlap with a student’s major, and that no more than 9 credit hours of named courses in a student’s major may count towards a minor program. A comment was also made about the requirement of not having hidden prerequisites in a minor program, and upper-division courses typically have such restrictions. In response, it was noted that this was fully discussed with each of the Colleges and the proposed elective list was approved by each College. There were no objections to the suggested changes to the minor degree’s requirements. It was asked, in light of the extensive list of approved electives for the minor, whether it was intended that all the electives would be listed in the Catalog, potentially taking up several pages. The response was “no,” that it was
intended for the Catalog description to be as simple as possible, and that the approved elective list could be kept by either the advisors for the program or posted online. The Registrar would keep a list of the approved lower-division courses (corresponding to the minimum program requirements), and the advisors would have a list of the approved upper-division course.

With regards to ISC 4000, a concern was raised as to the additional restriction of having to complete all other program requirements. It was noted that this would be difficult to enforce by anyone other than the student’s advisor, and thus it was agreed that this additional restriction be removed, leaving only “instructor permission” as an additional restriction. An additional concern was raised that the course description was too restrictive, limiting the final project to either Florida Tech’s main campus or one of its satellite locations. It was explained that the intent was to give something back to Florida Tech, but that other approved locations were also appropriate. Thus the course description was amended to state “...of the Florida Tech main campus, Florida Tech satellite location, or other approved location.”

The following item was discussed and passed unanimously, as amended.
7. College of Business – Extended Studies Division
   b. Adding a New Major or Minor to the Curriculum – Logistics Management

A concern was raised that ASC 1000 (University Experience) was not included in the proposed curriculum, as required by University policy. In response, it was explained that this program is not intended for first-year freshmen, but for those who already have higher-level education experience from outside Florida Tech, primarily members of the military, and that ASC 1000 was not required for such students. However, the College of Business agreed to include ASC 1000 or ASC 1005 (Strategies for Success at Florida Tech) into the curriculum, noting that ASC 1005 might be more appropriate than ASC 1000.

The following items were discussed and passed by a vote of 13-1-2.
9. Department of Chemistry
   a. Adding a New Course to the Curriculum – CHM 4700 (Physical Biochemistry)
   b. Changing Graduation Requirements in a Major or Minor
      i. Biochemistry (Chemistry emphasis)
      ii. Research Chemistry
      iii. Premedical Chemistry

A concern arose that this new course contains topics that are duplicated in both BIO 4010 (Biochemistry 1) and BIO 4110 (Biochemistry 2). It was understood that the proposed course was being presented in response to comments from the American Chemical Society (ACS) in connection with approving programs offered by Chemistry, however it is believed the impetus for the new course was caused by a misunderstanding on ACS’s behalf as to the content of BIO 4010. In response, it was noted that as part of ACS’s process, all exams are sent to ACS for review, and five years ago ACS commented that topics related to thermodynamics and kinetics were not adequately covered in BIO 4010. It was noted that in the intervening time, attempts had been made to increase
the rigor in BIO 4010 with respect to these topic areas, however it was not enough and that the only alternative was to offer this separate course to make up the perceived deficiencies. It was emphasized that it is the Chemistry Department’s intention only to supplement the material taught in the Biochemistry course, and not replace it; students will continue to take BIO 4010. It was also suggested that while some of the material in CHM 4700 may be similar to that in BIO 4010, it will be taught perhaps from a differing viewpoint since it will be taught by Chemistry. Also, if and when in the future ACS recognizes that CHM 4700 is superfluous, and that the required material is being taught from the Biochemistry courses, the new course would no longer be taught. In opposition, it was again noted that these topics (thermodynamics and kinetics) are covered in the Biochemistry courses and it is not clear what ACS is really trying to get. It was suggested that Chemistry should be allowed to do what is in its best interest to ensure the continued approval of their program, but that perhaps Chemistry should share all communications from ACS with Biological Sciences to help resolve the issue. One additional question arose about the grading scheme for this course. It was pointed out that the grading for this course would be done through a midterm and final exam, and that traditionally other graded material is used to determine a final course grade. In response, it was explained that this is a 1-credit course, and that because it will only meet once a week, there isn’t time for a number of quizzes or homework assignments, and that the proposed grading scheme would be sufficient for this course.

The following item was discussed. Items tabled from the previous meeting were also briefly reexamined. A combined motion was made to pass the presently-offered changes and the tabled changes, which passed unanimously.

13. College of Engineering
   b. Changing Graduation Requirements in a Major/Minor – Construction Mgmt.

Changes to the Construction Management program offered before the Committee at the previous meeting were tabled so that the College of Engineering and the Department of Physics and Space Sciences (PSS) could work out issues related to a physics course that could be offered to the Construction Management students. To resolve the issues, PSS offered a new course [PHY 1999 (Physical Concepts for Construction)] which passed earlier in the present meeting (Consent Agenda item 12(a)). The presently-offered changes to Construction Management replace the proposed changes from the last meeting wherein physics courses with a CON prefix were proposed. On the Chair’s motion, the present and previous changes were combined, with the exception that PHY 1999 and PHY 2091 (Physics Lab 1) would be used in the Construction Management program instead of CON 1002 (Physical Concepts for Construction) and CON 1003 (Physical Concepts Laboratory), and the motion passed unanimously. A copy of the form with the changes proposed at the last meeting is in the Appendix, appropriately amended. Note: CON 1002 and CON 1003 were tabled at the previous meeting and have since been withdrawn from consideration.
Other:

Several faculty members from Math. Sci. were present who wished to discuss the new course, MTH 3210 (Introduction to Partial Differential Equations and Applications) offered by Math. Sci. This course passed as part of the Consent Agenda (item 10). It was stated that Math. Sci. faculty were not in agreement in offering this new course, and that the new course contained more material than could be taught in a single semester. In response, it was explained that a committee within Math. Sci. unanimously recommended the new course to the department head, and it was then discussed during a faculty meeting where unanimous agreement was not reached, but a majority agreed to proceed with the course. In opposition, it was stated that additional changes were made to the new course after that faculty meeting and it was asked why these were not discussed with the faculty. Other Math. Sci. faculty members wished to weigh in. At this point, the Chair terminated this line of discussion on the grounds that the UGCC meeting is not the proper forum for what was becoming an intradepartmental debate. The Chair explained that the new course had been properly brought before the Committee, signed by the Department Head and Dean, and had already unanimously passed the Committee when the vote on the Consent Agenda was taken. The Chair suggested that this discussion was untimely and should be held within a Math. Sci. faculty meeting. It was also noted that should Math. Sci. wish to make changes to MTH 3210, they were welcomed to bring those changes before the Committee at a future meeting. It was asked if this meant that MTH 3201 (Boundary Value Problems) would now be eliminated, and the Chair responded “yes,” that the form for the new course indicated that MTH 3201 would be replaced, and that it would likely happen when no further students require MTH 3201 on their existing program plans.

Reminders:

1. All new courses and new programs must be reviewed by the Director of Catalog and Graduate Information (Liz Fox) before they are submitted for UGCC review.

Our next meeting is Friday, August 27 at 8:00 a.m. in the Physical Sciences conference room. Agenda items are due Friday, August 20.

The Chair reminded the Committee of the next meeting and wished everyone a good summer.

The meeting adjourned at 9:00 a.m.

Respectfully submitted,

Mark Archambault – Chair
Appendix
Florida Institute of Technology

CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: Engineering

DEGREE LEVEL: Bachelor of Science

DEPARTMENT:

PROGRAM TITLE: Computer Science

TO BE INITIATED WITH CATALOG YEAR 20 1 1 /20 1 2

CHANGE REQUESTED FOR: X major program □ minor program

NAMED TERM FOR EFFECTIVE DATE: Fall Semester-Main Campus

Term MUST be named, i.e. UA-Fall 2, Fall Semester-Main Campus

EFFECTIVE DATE FOR CHANGE: August 1 /20 1 0 (Required)

BRIEF DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation

Freshman Fall:
- Remove ECE 1551 Digital Logic. Move Social Science elective from Senior Fall.

Freshman Spring:

Sophomore Fall and Spring:
- Replace PHY 1001, 2091, 2002, 2092 by sequence of science courses with lab: Biology, Chemistry, or Physics.

Sophomore Spring:
- Move CSE 2400 Applied Statics to Junior Fall

Junior Fall:
- Move Restricted Math Elective to Junior Spring.

Senior Fall and Spring:
- Replace Technical Elective with Technical or Business Elective.
- Senior Fall: Add Restricted Elective Math or Science.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar

[Signatures and dates]

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[Checkboxes and dates for updating system]

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The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE  Engineering
DEPARTMENT  Computer Sciences

DEGREE LEVEL  Bachelor of Science
PROGRAM TITLE  Software Engineering

TO BE INITIATED WITH CATALOG YEAR 2011/2012
CHANGE REQUESTED FOR  ☒ major program  ☐ minor program
NAMED TERM FOR EFFECTIVE DATE  Fall Semester-Main Campus
Term MUST be named, i.e. UA-Fall 2, Fall Semester-Main Campus

MONTH/DAY/YEAR (Required)

BRIEF DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

Freshman Fall:
Move MTH 1001 Calculus 1 to Freshman Spring.

Freshman Spring:
Add CSE 2120 Computer Organization and Machine Programming. Move PSY 1411 Psychology to Freshman Fall.
Move MTH 1002 Calculus 2 to Sophomore Fall. Move HUM 2510 Logic to Sophomore Spring. Add Science Elective.
Sophomore Fall and Spring:
Replace PHY 1001, 2091, 2002, 2002 by sequence of science courses with lab: Biology, Chemistry, or Physics.
Sophomore Fall: Move CSE 3144 Software Testing 1 to Junior Fall.
Sophomore Spring: Move Applied Statistics to Junior Fall. Move Science Elective to Math or Science Senior Fall.
Junior Fall: Remove CSE 3101 Machine and Assembly Language. Move COM 2012 Research Sources to Sophomore Fall.
Junior Spring: Move CSE 3030 Legal Issues to Junior Fall. Move CSE 3421 Software Design to Junior Fall.
Senior Fall: Move CSE 4011 Operating Systems to Junior Spring. Add Math or Science Elective.
Senior Spring: Remove Free Elective. Add Math or Science Elective.

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to Office of the Registrar.

Original Date  4/28/10
Department Head / Major Program Chair

Date  4/20/10
Chair, Graduate Council

OR

Date  4/20/10
Chair, Undergraduate Curriculum Committee

Date  4/29/10
Dean, Undergraduate Dean

REGISTRAR'S USE ONLY

University Catalog  ☐ Yes  ☐ No  Update completed  Date  Initials

Extended Studies Division Catalog  ☐ Yes  ☐ No  Update completed  Date  Initials

University Alliance Catalog  ☐ Yes  ☐ No  Update completed  Date  Initials

CAPP / Degree Evaluation  ☐ Yes  ☐ No  Update completed  Date  Initials

Catalog / Policy Mgmt. System  ☐ Yes  ☐ No  Update completed  Date  Initials
**Florida Institute of Technology**

**CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR**

The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

**COLLEGE** Engineering  
**DEPARTMENT** Construction Management

**DEGREE LEVEL** Bachelor of Science  
**PROGRAM TITLE** Construction Management

**TO BE INITIATED WITH CATALOG YEAR** 2010 / 2011  
**CHANGE REQUESTED FOR** major program □ minor program □ 7045

**EFFECTIVE DATE FOR CHANGE** 8/16 / 2010  
**NAMED TERM FOR EFFECTIVE DATE** Fall Semester-Main Campus

**BRIEF DESCRIPTION OF REQUESTED CHANGES** Attach a more detailed description and any supporting documentation

1. Delete CON1001-CAD Applications and Construction Plans (3 credits)
2. Add CVE1001-Computer Applications Lab (1 credit)
3. Add new course CON1002-Physical Concepts for Construction (3 credits)
4. Add new course CON1003-Physical Concepts Laboratory (1 credit)
5. Move CON1002 & CON1003 from Year 1 to Year 2
6. Add new course CON1004-Construction Plan Reading (2 credits)
7. Delete BUS1601-Computer Applications for Business (3 credits)
8. Replace CON2002-Construction Materials Lab with CVE3013-Civil Engineering Materials Lab
9. Add new course CON4005-Construction Safety (3 credits)
10. Add new course CON4091-Construction Capstone Proposal (1 credit)
11. Add new course CON4092-Construction Capstone Project (3 credits)

**Approvals:** On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Office of the Registrar.

**Originator**

**Date** 3-16-2010

**Chair, Graduate Council**

**Date** 3-16-2010 OR

**Chair, Undergraduate Curriculum Committee**

**Date** 3-17-10

**Dean or Associate Dean**

**Date** 5-13-10

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