TO: Undergraduate Curriculum Committee

FROM: Prof. Ronaldo Menezes, Program Chair, Computer Science and Software Engineering

CC: Prof. Marco Carvalho, Dean, School of Computing

DATE: April 12, 2017

RE: Changing Graduation Requirements for Computer Science

The School of Computing proposes a new flowchart for the Computer Science BS Program (7071). The changes continue to meet ABET and FIT Core Requirements. The changes have been implemented in conjunction with all the faculty in the School of Computing as well as consultation with Industry partners. I'm attaching with this a graphical version of the flow chart as well as the semester-based textual version of the flow chart. Below is a summary of the changes per semester:

- Many courses have been moved to different semester, please see flowcharts.
- Many of electives have been removed to allow for the introduction of required classes.
- Courses no longer required
  - COM2012 (Research Sources and Systems)
  - CSE3030 (Legal, Ethical and Social Issues in Computing)
  - HUM2510 (Logic), please see letter from Dr. Taylor acknowledging the change.
- Courses added as required
  - MTH3102 (Introduction to Linear Algebra), see letter from Dr. Abdulla acknowledging the change.
  - CSE4020 (Database Systems), it was an elective before.
  - CSE3100 (Junior Project), new course added. Similar to what is done in Engineering.
  - CSE3231 (Computer Networks), new course added.
  - CSE4301 (Introduction to Artificial Intelligence), it was an elective before.
  - CSE4251 (Compiler Theory), it was an elective before.
  - CSE4232 (Network Programming), it was an elective before.

We hope for these changes to be approved and I make myself available to the committee to answer any of your questions.
<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Junior Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 1101 Compo. &amp; Rhetoric</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Math/Science Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FYE 1000 University Experience</td>
<td>(1)</td>
<td></td>
<td></td>
<td>Humanities Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 1001 Calculus 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4020 Database Systems</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1400 Discrete Math</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4250 Prog. Lang. Concepts</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1001 Fund Software Dev 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4001 Operating Syst. Concept</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1101 Comp. Disc. &amp; Careers</td>
<td>(1)</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 1102 Writing abt. Literature</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Math/Science</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 1002 Calculus 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>Social Science Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science: Phy / Chem / Bio 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4083 Formal Lang &amp; Automata</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1002 Fund Software Dev 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 3100 Junior Project</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2120 Computer Organization</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 3231 Computer Networks</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
<td>CSE 3120 Computer Architecture</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophomore Year</td>
<td></td>
<td></td>
<td></td>
<td>Senior Year</td>
<td>(Cr)</td>
<td>Sem</td>
<td>Grade</td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 2223 Sci Tech Comm.</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 2051 Civilization 1</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4081 Intro Analysis of Algorithm</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4101 CS Project 1</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science: Phy / Chem / Bio 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4301 Intro to Artificial Intellig.</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2010 Algorithms &amp; Data Struc</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td></td>
<td></td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2400 Applied Statistics</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Technical Elective</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 3102 Intro to Linear Algebra</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4102 CS Project 2</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2410 Intro to SW Engineering</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4251 Compiler Theory</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2050 Prog. In a 2nd Language</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4232 Comp. Network Program.</td>
<td>(3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td></td>
<td>Total Credits Required</td>
<td>127</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Student's Name (PRINT)  
Student ID #  
Advisor Signature  
Date  
Dept. Head's Signature  
April 11, 2017
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:** School of Computing  
**Department:** School of Computing

**Degree Level:** BS  
**Program Title:** Computer Science

**To Be Initiated With Catalog Year:** 2018/2019  
**Change Requested For:**  
- [ ] major program  
- [ ] minor program  
  **Major/Minor Code:** 7071

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

- [ ] Yes  
- [ ] No  
Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

**Description of Requested Changes:** Attach a more detailed description and any supporting documentation.

We are requesting a few changes to the program requirements for the Computer Science (7071) BS program. The changes are explained in the attached memo.

---

**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 Catalog & Curriculum Manager.

1. **Registrar:**  
   [Signature]  
   **Date:** 4/19/17

2. **Chair, Graduate Council:**  
   [Signature]  
   **Date:** 4/19/17

3. **Chair, Undergraduate Curriculum Committee:**  
   [Signature]  
   **Date:** 4/19/17

---

**Registrar's Use Only**

<table>
<thead>
<tr>
<th>CAPP / Degree Evaluation</th>
<th>Yes</th>
<th>No</th>
<th>Update Completed</th>
<th>Date</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catalog Management System</th>
<th>Yes</th>
<th>No</th>
<th>Update Completed</th>
<th>Date</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The School of Computing proposes a new flowchart for the Software Engineering BS Program (7075). The changes continue to meet ABET and FIT Core Requirements. The changes have been implemented in conjunction with all the faculty in the School of Computing as well as consultation with Industry partners. I’m attaching with this a graphical version of the flow chart as well as the semester-based textual version of the flow chart. Below is a summary of the changes per semester:

- Many courses have been moved to different semester, please see flowcharts.
- Many of electives have been removed to allow for the introduction of required classes
- Courses no longer required
  - COM2012 (Research Sources and Systems)
  - CSE3030 (Legal, Ethical and Social Issues in Computing)
  - HUM2510 (Logic), please see letter from Dr. Taylor acknowledging the change.
  - PSY1411 (Introduction to Psychology), please see letter from Dr. Steelman acknowledging the change.
  - CSE4415 (Software Testing 2)
- Courses added as required
  - MTH3102 (Introduction to Linear Algebra), see letter from Dr. Abdulla acknowledging the change.
  - CSE4020 (Human-Computer Interaction), new course added.
  - CSE4611 (Software Maintenance and Evolution), new course added.
  - CSE4611 (Junior Project), new course added. Similar to what is done in Engineering.
  - CSE4301 (Software Project Management), it was an elective before.
  - CSE4250 (Programming Languages), it was an elective before.
  - CSE4683 (Formal Methods), new course.

We hope for these changes to be approved and I make myself available to the committee to answer any of your questions.
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: School of Computing
DEPARTMENT: School of Computing

DEGREE LEVEL: BS
PROGRAM TITLE: Software Engineering

TO BE INITIATED WITH CATALOG YEAR: 2018 / 2019
CHANGE REQUESTED FOR: □ major program □ minor program
Major/Minor Code: 7075

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

□ Yes □ No Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

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

We are requesting a few changes to the program requirements for the Software Engineering (7075) BS program. The changes are explained in the attached memo.

 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 Catalog & Curriculum Manager.

Originator: [Signature] 4/18/13
Department Head / Major Program Chair: [Signature] 4/18/17
Date

OR

Chair, Graduate Council: [Signature] Date

Department Head / Minor Program Chair: [Signature] Date

Dean or Associate Dean: [Signature] 4/20/17

REGISTRAR’S USE ONLY

CAPP / Degree Evaluation
Academic Year: [Year]
□ Yes □ No Update completed [Date] Initials

Catalog Management System
Academic Year: [Year]
□ Yes □ No Update completed [Date] Initials
### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Junior Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 1101 Compo. &amp; Rhetoric</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Math/Science Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FYE 1000 University Experience</td>
<td>(1)</td>
<td></td>
<td></td>
<td>CSE 3411 Software Testing 1</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 1001 Calculus 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 3612 Human-Computer Interac.</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1001 Fund Software Dev 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4001 Operating Syst. Concept</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1400 Discrete Math</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4610 Requirements Engineering</td>
<td>(3)</td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>CSE 1101 Comp. Disc. &amp; Careers</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Junior Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 1102 Writing abt. Literature</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Math/Science</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 1002 Calculus 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>Social Science Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science: Phy / Chem / Bio 1</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 3100 Junior Project</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 1002 Fund Software Dev 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 3421 SW Design Methods</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2120 Computer Organization</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4083 Formal Lang &amp; Automata</td>
<td>(3)</td>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CSE 4611 SW Maintenance &amp; Evolut.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Senior Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 2223 Sci Tech Comm.</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM 2051 Civilization 1</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4201 SW Development Project 1</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science: Phy / Chem / Bio 2</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4250 Prog. Language Concepts</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2010 Algorithms &amp; Data Struc</td>
<td>(4)</td>
<td></td>
<td></td>
<td>CSE 4410 SW Project Management</td>
<td>(3)</td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Senior Year</th>
<th>(Cr)</th>
<th>Sem</th>
<th>Grade</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td>Free Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2400 Applied Statistics</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2050 Prog. in a 2nd Language</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE Elective</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSE 2410 Intro to SW Engineering</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4202 SW Development Project 2</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 3102 Intro to Linear Algebra</td>
<td>(3)</td>
<td></td>
<td></td>
<td>CSE 4683 Formal Specification</td>
<td>(3)</td>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Total Credits Required: 127

Student's Name (PRINT)
_________________________________________________________

Student ID #
_________________________________________________________

Advisor Signature
_________________________________________________________

Date
_________________________________________________________

Dept. Head's Signature
_________________________________________________________

April 11, 2017
BS in Software Engineering - 127 Credits

Semester 1 (16 Credits)
- COM 1101 (3) Comp and Rhetoric
- ASC 1000 (1) University Experience
- MTH 1001 (4) Calculus I
- CSE 1300 (3) Discrete Math
- CSE 1101 (1) Comp. Disciplines & Critical Thinking

Semester 2 (18 Credits)
- COM 1102 (3) Writing about Literature
- MTH 1002 (4) Calculus II
- SCIENCE (4) General Chemistry
- CSE 1002 (4) Fundamentals of Software Development
- CSE 2120 (3) Computer Organization

Semester 3 (17 Credits)
- COM 2223 (3) Sci Tech Comm
- HUM 2051 (3) Civilization I
- HUMANITIES (3) HU Elective
- SCIENCE (4) Physics I
- CSE 2010 (4) Alg and Data Structures

Semester 4 (15 Credits)
- HUMANITIES (3) HU Elective
- CSE 2400 (3) Applied Statistics
- MTH 3102 (4) Intro Linear Algebra
- CSE 2410 (3) Introduction to Software Engineering
- CSE 2050 (3) Operating System Concepts

Semester 5 (15 Credits)
- MATH/SCIENCE (3) >= 2000
- SOC SCIENCE (3) >= 3000
- CSE 4610 (3) Software Requirements
- CSE 3612 (3) HCI
- CSE 3411 (3) Software Testing

Semester 6 (16 Credits)
- MATH/SCIENCE (3) >= 2000
- SOC SCIENCE (3) >= 3000
- CSE 4621 (3) Software Design
- CSE 4611 (3) Soft. Maintenance/Management
- CSE 3100 (1) Junior Project

Semester 7 (15 Credits)
- FREE (3)
- CSE ELECT. (3) >= 3000
- CSE 4410 (3) Software Management
- CSE 4411 (3) Software Engineering
- CSE 4083 (3) Programming Languages

Semester 8 (15 Credits)
- FREE (3)
- CSE ELECT. (3) >= 3000
- CSE 4683 (3) Formal Specification
- CSE 4102 (3) Senior Project 2
- CSE ELECT. (3)
RE: PSY 1411
by Lisa Steelman I Isteelma@fit.edu

Ronaldo,

Your message has been received and shared with Dr. Kenkel and Dr. Harvey.

Lisa

Lisa Steelman, Ph.D.
Senior Associate Dean
Professor & Chair I/O Psychology
Florida Institute of Technology
Isteelma@fit.edu
Dear Lisa (cc Dr. Kinkel)

We are proposing a revised program for the Software Engineering and the PSY 1411 will no longer be required. We'll still encourage students to take it as an elective. I'm writing to let you know so that you can plan accordingly. The changes should only take effect in a couple of semesters. Could you please reply to this email acknowledging that we're informing your unit of this change? I need a reply to attach to our documents to be submitted to the undergraduate curriculum committee.

Thanks.

Ronaldo Menezes, PhD
Professor, School of Computing, Florida Institute of Technology
Program Chair, Computer Science & Software Engineering
Director, BioComplex Laboratory
Editor-in-Chief, Applied Network Science Journal (appliednetsci.springeropen.com)
cs.fit.edu/~rmenezes
Thank you Ronaldo. Logic would still be a great HUM elective for your folks in any case. Let me know if there is anything further we can do to support your program.

Best,

Bob

Robert A. Taylor, Ph.D.
Associate Dean and Head,
School of Arts and Communication
College of Psychology and Liberal Arts
Professor of History
Florida Institute of Technology
150 West University Blvd.
Melbourne, Fl. 32901-6975
321-674-7384
www.fit.edu
Ronaldo,

I strongly support your decision. MTH 3102 is a required for math majors and will be offered regularly in Spring. Note that we offer regularly graduate course MTH 5102 - Linear Algebra in Spring. Perhaps you can make it required/recommended for your graduate programs in future.

Ugur G. Abdulla, Ph.D., Dr.Sci.
Professor and Department Head

Department of Mathematical Sciences
Florida Institute of Technology
Phone: (321)6748765
Email: abdulla@fit.edu
my.fit.edu/~abdulla/
TO: Undergraduate Curriculum Committee
FROM: Prof. Ronaldo Menezes, Program Chair, Computer Science and Software Engineering
CC: Dr. Marco Carvalho, Dean, School of Computing
DATE: April 4, 2017
RE: Adding courses
CSE 3100 – Junior Project
CSE 4611 – Software Maintenance and Evolution
CSE 3612 – Human-Computer Interaction

The School of Computing proposes the introduction of 3 (three) new courses called Junior Design, Software Maintenance and Evolution, and Human-Computer Interaction. No undergraduate course on this topic currently exists and no program is currently being affected by the creation of this course.

It is our intent that the Junior Project course would be used in future programs as a pre-requisite for the Senior Design. The College of Engineering has similar courses (e.g. MAE 3291, ECE 3240). We intend to have the course available to CS/SE students also.
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

This is a request for reactivation of a course in the system.  
☐ Yes  ■ No

New courses are available beginning with the fall term in which they appear in the University Catalog.

SUBJECT C S E  COURSE NO.* 4 6 1 1  CREDIT HOURS 3  ACADEMIC YEAR TO BE ADDED TO THE FILE Fall 2018 (e.g., 1301)

*Justify level if 1000-level+ and no co- or prerequisites

CLASS HOURS 45/semester  LECTURE HOURS 45/semester  LAB HOURS 0/semester  CONTACT HOURS (CEU ONLY) N/A

DEPARTMENT School of Computing  SCHEDULE TYPE Lecture (A)

(e.g., Biological Sciences)  (e.g., Lecture, Lab or Special Topics/Project)

☐ COLLEGE OF AERONAUTICS – 23  ☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25
☐ NATHAN M. BISK COLLEGE OF BUSINESS – 24  ☐ COLLEGE OF SCIENCE – 26
☐ COLLEGE OF ENGINEERING AND COMPUTING – 01  ☐ SCHOOL OF HUMAN-CENTERED DESIGN, INNOVATION AND ART – 28

COMPUTER TITLE Software Maint/Evolution  Restricted to 25 characters, including spaces

This course will be entered into the system as:  Bi-Level ☐  Cross-Listed ☐  Dual-Numbered ☐  Full-Load ☐  None of these/Standard Listing ■

CATALOG TITLE Software Maintenance and Evolution

CATALOG DESCRIPTION OF COURSE Restricted to 350 characters, including spaces

Introduces the methods, principles and practices of software maintenance and evolution. Topics include program slicing, reusable components, refactoring, regression testing, program comprehension, reverse engineering and impact analysis.

This description has been approved by the catalog office  

[Signature]  4/11/2017  
Catalog & Curriculum Manager  Date

In addition, please attach a course syllabus and/or more detailed description.

GRADES TO BE ISSUED  
☐ A, B, C, D, F  ■ A, B, C, D, F, CEU/Audit
☐ CEU  ■ S, U
☐ P, F  ■ Other

RESTRICTIONS ■ Prerequisite CSE 2410  ☐ Corequisite  ☐ and  ☐ or

Course Number  Course Number  Course Number

☐ Prerequisite  ☐ Corequisite  ☐ and  ☐ or

Course Number  Course Number  Course Number

☐ Prerequisite  ☐ Corequisite  ☐ and  ☐ or

Course Number  Course Number  Course Number

ADDITIONAL RESTRICTION  ☐ and  ☐ or

(e.g., Major, Class Level, Department Head Approval)

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

SUBJECT Alpha Prefix (e.g., CSE)  COURSE NO. (e.g., 1301)  TERM TO INACTIVATE

☐ Yes  ■ No  Will this course be used to measure program-level student learning outcomes? If yes, review and signature required.**

☐ Yes  ■ No  Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes  ■ No  Will this course impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program impacted.

APPROVALS: On completion of description and course number verification, affix appropriate signatures as indicated, and submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

Originator  4/19/17  
Chair, Graduate Council  Date

Department Head/Program Chair  4/19/17  
Chair, Undergraduate Curriculum Committee  Date

Dean or Associate Dean  4/19/17  
Date  

**Chair, Academic Programs Assessment Committee  Date

CATALOG & CURRICULUM MANAGER  

These changes/additions have been made for the University Catalog and entered into the BANNER term named above.

Catalog & Curriculum Manager  Date

REGISTRAR’S USE ONLY

SCACRSE  SCADETL  SCAPREQ  SCBASE  ACALOG

SCARRIES  CIP Code  Operator Init.  Date

Florida Institute of Technology • Office of the Registrar

150 West University Boulevard, Melbourne, FL 32901-6975  • (321) 674-8114  • Fax (321) 674-7827

RGR-338-417
Software Maintenance and Evolution, CSE 4611, Fall 2017
Instructor: Dr. Keith Gallagher


Course Information: Methods, principles and practice of software maintenance and evolution.

Expected Outcomes: By the end of the course the students should have both a theoretical as well as a practical view of software maintenance and evolution by understanding guidelines, principles and theories that influence software maintenance and evolution.

More specifically:
- Software maintenance and evolution as its own discipline.
- Program comprehension strategies and techniques.
- Impact Analysis.
- Testing and regression testing.
- Reverse engineering.
- Reuse and reusability.
- Maintainability and maintenance measures.
- Maintenance tools.

Course Schedule:
- Week 1. Introduction. Evolution vs. Maintenance
- Week 2. Code reading and comprehension.
- Week 3-4. Program Slicing for change. Impact Analysis.
- Week 5-6. Finding reusable components.
- MIDTERM EXAM 1
- Week 7. Change strategies.
- Week 12. Impact Analysis
- MIDTERM EXAM 2
- Week 13. Reuse and Domain Engineering.
- Week 15 Formal methods for software evolution.

Grading Policy: The average grade will be calculated based on collection of topical exercises (35%), 2 midterms (30%), a final essay paper (35%).
Bibliography:

**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

This is a request for reactivation of a course in the system.  
☐ Yes  ☐ No

**New courses are available beginning with the fall term in which they appear in the University Catalog.**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>C S E</th>
<th>COURSE NO.*</th>
<th>CREDIT HOURS</th>
<th>ACADEMIC YEAR TO BE ADDED TO THE FILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(e.g., CSE)</td>
<td>(e.g., 1301)</td>
<td>3 1 0 0</td>
<td>1</td>
<td>Fall 2018</td>
</tr>
</tbody>
</table>

*Justify level if 1000-level plus no co- or prerequisites

<table>
<thead>
<tr>
<th>CLASS HOURS</th>
<th>LECTURE HOURS</th>
<th>LAB HOURS</th>
<th>CONTACT HOURS (CEU ONLY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/semester</td>
<td>15/semester</td>
<td>0/semester</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>SCHOOL OF COMPUTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>(e.g., Biological Sciences)</td>
<td>(e.g., Lecture, Lab or Special Topics/Project)</td>
</tr>
<tr>
<td>☐ COLLEGE OF AERONAUTICS – 23</td>
<td>☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25</td>
</tr>
<tr>
<td>☐ NATHAN M. BISK COLLEGE OF BUSINESS – 24</td>
<td>☐ COLLEGE OF SCIENCE – 26</td>
</tr>
<tr>
<td>☐ COLLEGE OF ENGINEERING AND COMPUTING – 01</td>
<td>☐ SCHOOL OF HUMAN-CENTERED DESIGN, INNOVATION AND ART – 28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPUTER TITLE</th>
<th>Junior Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted to 25 characters, including spaces</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CATALOG TITLE</th>
<th>Junior Project</th>
</tr>
</thead>
</table>

| CATALOG DESCRIPTION OF COURSE | Restricted to 150 characters, including spaces |

Introduces the concepts and methodology of software project development. Forms teams and develops team proposals for capstone design projects that will be implemented during the senior year. Allows juniors to interact with seniors completing capstone design projects.

This description has been approved by the catalog office.

**In addition, please attach a course syllabus and/or more detailed description.**

<table>
<thead>
<tr>
<th>RESTRICTIONS</th>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ and ☐ or</td>
<td>Course Number</td>
<td>Course Number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDITIONAL RESTRICTION</th>
<th>☐ and ☐ or</th>
<th>(e.g., Major, Class Level, Department Head Approval)</th>
</tr>
</thead>
</table>

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>Alpha Prefix (e.g., CSE)</th>
<th>COURSE NO. (e.g., 1301)</th>
<th>TERM TO INACTIVATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Yes</td>
<td>☐ No</td>
<td>Will this course be used to measure program-level student learning outcomes? If yes, review and signature required.**</td>
<td></td>
</tr>
<tr>
<td>☐ Yes</td>
<td>☐ No</td>
<td>Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach &quot;Q&quot; materials for review.</td>
<td></td>
</tr>
<tr>
<td>☐ Yes</td>
<td>☐ No</td>
<td>Will this course impact any existing programs? If yes, attach &quot;Changing Graduation Requirements&quot; form for each program impacted.</td>
<td></td>
</tr>
</tbody>
</table>

**APPROVALS: On completion of description and course number verification, affix appropriate signatures as indicated, and submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.**

<table>
<thead>
<tr>
<th>Originator</th>
<th>Date</th>
<th>Chair, Graduate Council</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>4/13/17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department Head/Program Chair</th>
<th>Date</th>
<th>Chair, Undergraduate Curriculum Committee</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>4/23/17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chair, Academic Programs Assessment Committee**

**Date**

**REGISTRAR'S USE ONLY**

<table>
<thead>
<tr>
<th>SCACRSE</th>
<th>SCADETL</th>
<th>SCAPREQ</th>
<th>SCABASE</th>
<th>ACATALOG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCARRS</th>
<th>CIP Code</th>
<th>Operator Init.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Florida Institute of Technology • Office of the Registrar**

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-338-417
Junior Project, CSE 3100, Fall 2017
Instructor: Dr. Phil Chan


Course Information: Introduces concepts and methodology of computer science design through seniors completing their capstone projects and the development of team proposals for capstone design projects that will be implemented in the senior year.

Expected Outcomes: By the end of the course the students should have a good understanding of what makes a successful capstone project and would have seen seniors presenting their final project.

More specifically:
- Review of the book to be used in the senior year. Most of the book should be read in the junior design
- Group formation
- Interaction with seniors to understand lessons learned

Course Schedule:
- Week 1-3. Group formation
- Week 4-5. Discussion of topics and identification of a suitable sponsors (faculty)
- Week 9-12. Shadowing senior groups
- Week 13-15. Presentation of project topics in class and to seniors.

Grading Policy: Formation of Groups (30%). Definition of Project Proposal (50%). Attendance and participation of senior design (20%).

Bibliography:

New courses are available beginning with the fall term in which they appear in the University Catalog.

**Subject:** CSE 3612
**Credit Hours:** 3
**Academic Year to be Added to the File:** Fall 2018

**Class Hours:** 45/semester
**Lecture Hours:** 45/semester
**Laboratory Hours:** 0/semester
**Contact Hours (CEU only):** N/A

**Department:** School of Computing

**Schedule Type:** Lecture (A)

**Course Title:** Human-Computer Interact

**Catalog Title:** Human-Computer Interaction

**Catalog Description of Course:**
Introduces the methods and principles of human-computer interaction throughout the software development life cycle. Topics include user-centered design, prototyping, modeling interaction, cognitive models and socio-organizational issues.

This description has been approved by the catalog office.

**Catalog & Curriculum Manager:**
Date: 4/11/2017

**In addition, please attach a course syllabus and/or more detailed description.**

**Grades to be Issued:**
- A, B, C, D, F
- A, B, C, D, F, CEU/Audit
- CEU
- S, U
- P, F
- Other

**Restrictions:**
- Prerequisite: CSE 2410
- Corequisite: The number of course

**Approval:**
On completion of description and course number verification, affix appropriate signatures as indicated, and submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

**Chair, Graduate Council:**
Date: 4/13/17

**Chair, Undergraduate Curriculum Committee:**
Date: 4/13/17

**Date:**

**Chair, Academic Programs Assessment Committee:**
Date: 4/20/17

**Date:**

**Catalog & Curriculum Manager:**

**Registrar's Use Only:**

- SCACRSE
- SCADERL
- SCAPREQ
- SCABASE
- ACALOG
- SCARRES
- CIP Code
- Operator Init.

**Catalog & Curriculum Manager:**
Date: 4/13/17

**Florida Institute of Technology • Office of the Registrar**

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-338-417
HUMAN COMPUTER INTERACTION, CSE 3612, Fall 2017
Instructor: Dr. Tom Eskridge
Text Recommended: The UX Book: Process and Guidelines for Ensuring a Quality User Experience

Course Information: Methods and principles of human-computer interaction (HCI), user-centered design (UCD), and usability evaluation. This course provides an overview of HCI and how HCI informs UCD processes throughout product/software development lifecycle.

Expected Outcomes: By the end of the course the students should have both a theoretical as well as a practical view of HCI by understanding guidelines, principles and theories that influence HCI.

More specifically:
- Students should gain an initial understanding of human factors theory, research and practice.
- Students should obtain an understanding of fundamental methods in HCI and recognize the impact of system design on users’ attitudes and behaviors.
- Students should become familiar with the fundamental notions of User-centered Design (UCD) and employ these notions in the analysis and evaluation of software systems.
- Students should be able to do system requirements from the point of view of interactions (human-machine).
- Employ UX Metrics to the evaluation of HCI systems
- Students should be able to program of prototypes and understand software tools designed for prototyping.

Course Schedule:
- Week 1. Introduction to Usability, Usability and User Experience. Historical Works on HCI (the birth of HCI).
- Week 2. Human Factors, UX process lifecycle
  MIDTERM EXAM 1
- Week 7-8. Design Thinking, Ideation and Sketching. Modeling Interaction (descriptive and predictive model)
- Week 10. Macro views of lifecycle interactions. Socio-organizational issues and requirements.
- Week 11. Design Goals, Metrics and Targets.
  MIDTERM EXAM 2
- Week 12-13. Prototyping and Evaluation
• Week 15. HCI and Software Engineering. The challenge of connecting SE and HCI.

**FINAL EXAM**

**Grading Policy:** The average grade will be calculated based on 2-3 implementation of problems sets (35% total), 2 midterms (30% total), a final exam (30%), participation in class, in office hours, and Canvas (5%).

**Bibliography:**

REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: School of Computing

REQUEST IS FOR CHANGE IN COURSE: CSE 1001

Fundamentals of Software Development 1

DEPARTMENT

Prefix: CSE

Number: 1001

Course Title

TO BE INCLUDED IN 2018/2019 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite MTH 1001 and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite MTH 1002 and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/R/S/U, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Requirement(s): Passing score on calculus placement test or prerequisite course

Pre-requisite: MTH 1000 or MTH 1012

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Originator 4/15/17

2) Department Head/Program Chair 4/19/17

3) Dean or Associate Dean 4/20/17

4) Chair, Graduate Council

OR

Chair, Undergraduate Curriculum Committee

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCACRSE SCADTL SCAPREQ

SCABASE SCARRES ACALOG

Operator initials Date

DISTRIBUTION

Original – Catalog & Curriculum Manager
Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
# Request to Change the Requirements for a Course

**Florida Institute of Technology**

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

**College**: School of Computing  
**Department**:  

**Request is for change in course**:  

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Number</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1400</td>
<td>Applied Discrete Math</td>
</tr>
</tbody>
</table>

**To be included in 2018-2019 Catalog**

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

**Is request for a change in the name listed above?**  
- Yes [ ]  
- No [ ]

**Is request for a change in credits for course listed above?**  
- Yes [ ]  
- No [ ]

If yes, the current credits requested/credits:  

**Is request to change restrictions for course listed above?**  
- Yes [ ]  
- No [ ]

If yes, please check all that apply:

- [ ] Add  
- [ ] Remove  
- [ ] Prerequisite  
- [ ] Corequisite  

**Prefix | Number |**

- MTH 1001  
- MTH 1002  

**Other restrictions**:  

*Other restrictions may include changing the grade mode (P/F, S/A, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.*

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

**Requirement(s):**  

- Passing score on calculus placement test or prerequisite course  
- Pre-requisite: MTH 1000 or MTH 1012

- Yes [ ]  
- No [ ]

Is this request for the course to be used to measure program-level student learning outcomes?

- Yes [ ]  
- No [ ]

Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

- Yes [ ]  
- No [ ]

Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

**Approvals:** Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature]  
Date: **4/13/17**

2) [Signature]  
Date: **4/13/17**

3) [Signature]  
Date: **4/20/17**

4) Chair, Graduate Council  
Date:  

OR

Chair, Undergraduate Curriculum Committee  
Date:  

**Catalog & Curriculum Manager’s Use Only**

<table>
<thead>
<tr>
<th>SCACRSE</th>
<th>SCADETL</th>
<th>SCAPREQ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCARBASE</th>
<th>SCARRES</th>
<th>ACALOG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Operator Initials</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date</td>
</tr>
</tbody>
</table>

**Distribution**

- Original – Catalog & Curriculum Manager  
- Copy – Academic Unit

---

Florida Institute of Technology • Office of the Registrar  
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
Florida Institute of Technology

REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE School of Computing

DEPARTMENT

REQUEST IS FOR CHANGE IN COURSE

<table>
<thead>
<tr>
<th>CSE</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix</td>
<td>Number</td>
</tr>
</tbody>
</table>

Programming in a Second Language

Course Title

TO BE INCLUDED IN 20 18 /20 19 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No

If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No

If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No

If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 1502 ☐ and ☐ or CSE 2120

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 2010 ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No

If yes, please use box below:

Pre-requisite: CSE 2010

*Other restrictions may include changing the grade mode (P,F,S,N), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Origina 4/19/17

2) Department Head/Program Chair 4/19/17

3) Dean or Associate Dean 4/20/17

4) Chair, Graduate Council 4/19/17

OR

Chair, Undergraduate Curriculum Committee 4/20/17

CATALOG & CURRICULUM MANAGER’S USE ONLY

SCACRSE SCADETL SCAPREQ

SCABASE SCARRIES ACALEG Operator Initials Date

DISTRIBUTION

Original – Catalog & Curriculum Manager

Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: School of Computing  
DEPARTMENT: 

REQUEST IS FOR CHANGE IN COURSE  
CSE 4001  
Operating Systems Concepts  

Prefix:  
Number:  
Course Title:  

TO BE INCLUDED IN 20 18 / 20 19 CATALOG 

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  
☐ Yes  ☐ No  If yes, requested name  

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  If yes, current credits requested credits  

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  If yes, please check all that apply:  
- Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  
- CSE 2050  
- CSE 2120  
☐ and  ☐ or  
- ECE 3551  

☐ Add  ☐ Remove  ☐ Other Restrictions*  
☐ Yes  ☐ No  If yes, please use box below:  

*Other restrictions may include changing the grade mode (P/F, S/U, A-F,&D), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions. Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Pre-requisite: Both CSE 2010 and CSE 2120, or ECE 2552

☐ Yes  ☐ No  Is this request for the course to be used to measure program-level student learning outcomes?  

☐ Yes  ☐ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.  

☐ Yes  ☐ No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1)  
2)  
3)  
4)  

Chair, Graduate Council  
Date  
OR  
Chair, Undergraduate Curriculum Committee  
Date

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCACISE  
SCADETL  
SCAPREQ  

SCABASE  
SCARRES  
ACATALOG  
Operator Initials  
Date

DISTRIBUTION

Original - Catalog & Curriculum Manager  
Copy - Academic Unit

Florida Institute of Technology  •  Office of the Registrar  
150 West University Boulevard, Melbourne, FL 32901-6975  •  (321) 674-8114  •  Fax (321) 674-7827
BANNER shows the prerequisite for CSE 4001 is ECE 2552 on the ECE side. We are fine with that.

S. P. Kozaitis  
Professor and Department Head  
Electrical and Computer Engineering  
Florida Institute of Technology  
150 W. University Blvd.  
Melbourne, FL 32901  
kozaitis@fit.edu  
(321) 674-8060
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: School of Computing

REQUEST IS FOR CHANGE IN COURSE CSE 3120 Computer Architecture and Assembly Programming

TO BE INCLUDED IN 2018-2019 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? □ Yes □ No If yes, requested name ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, please check all that apply:
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  CSE 2050 □ and □ or
☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  CSE 2010 □ and □ or
☐ Add  ☐ Remove  ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/R, S/A, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Pre-requisite: CSE 2010 and CSE 2120

☐ Yes  □ No Is this request for the course to be used to measure program-level student learning outcomes?
☐ Yes  □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.
☐ Yes  □ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Originator: __________________________ 4) Chair, Graduate Council: __________________________
   Date: 4/19/17  Date: __________________________

2) Department Head/Program Chair: __________________________  OR
   Date: 4/18/17  Date: __________________________

3) Dean or Associate Dean: __________________________
   Date: 4/20/17  Date: __________________________
   Chair, Undergraduate Curriculum Committee: __________________________

CATALOG & CURRICULUM MANAGER’S USE ONLY

SCACRSE: __________________________ SCADETL: __________________________ SCAPREQ: __________________________
SCABASE: __________________________ SCARRES: __________________________ ACALOG: __________________________ Operator Initials: __________________________ Date: __________________________

DISTRIBUTION:
Original – Catalog & Curriculum Manager
Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827
RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE School of Computing

DEPARTMENT ____________________________

REQUEST IS FOR CHANGE IN COURSE C S E 4 2 3 2

Computer Network Programming

Prefix Number Course Title

TO BE INCLUDED IN 20   16    / 20   19    CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?   ☐ Yes   ☐ No if yes, requested name__________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?   ☐ Yes   ☐ No if yes, current credits ___________, requested credits ___________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?   ☐ Yes   ☐ No if yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 2010

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 3231

☐ Add ☐ Remove ☐ Other Restrictions*   ☐ Yes   ☐ No if yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, EU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Pre-requisite: CSE 3231 or ECE 2552

☐ Yes   ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes   ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "O" materials for review.

☐ Yes   ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) ____________________________ 4/19/17

Originator

Date

Chair, Graduate Council

Date

OR

2) ____________________________ 4/19/17

Department Head/Program Chair

Date

3) ____________________________ 4/20/17

Dean or Associate Dean

Date

Chair, Undergraduate Curriculum Committee

Date

CATALOG & CURRICULUM MANAGER’S USE ONLY

SCACRSE ____________________________ SCADETL ____________________________ SCAPREQ ____________________________

SCABASE ____________________________ SCARMES ____________________________ ACALOG ____________________________ Operator Initials ____________________________ Date ____________________________

DISTRIBUTION

Original – Catalog & Curriculum Manager
Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
Florida Institute of Technology

REQUEST TO CHANGE THE
REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: School of Computing
DEPARTMENT:

REQUEST IS FOR CHANGE IN COURSE C S E 4 1 0 1 Computer Science Projects 1

Prefix Number Course Title

TO BE INCLUDED IN 20 18 / 20 19 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes □ No If yes, requested name__________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes □ No If yes, current credits ______ requested credits ______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  □ Yes □ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 2010 □ and □ or

Prefix Number

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite CSE 3100 □ and □ or CSE 2410

Prefix Number

☐ Add ☐ Remove Other Restrictions* □ Yes □ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CE), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions. Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Requirement:  (Q) Prerequisites: CSE 2410 and CSE 3100

☐ Yes □ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes □ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Original

2) Department Head/Program Chair

3) Dean or Associate Dean

4) Chair, Graduate Council

Date 4/19/17

Date 4/19/17

Date 4/20/17

OR

Date

Date

Date

CATALOG & CURRICULUM MANAGER’S USE ONLY

SCACRSE ___________________ SCADETI ___________________ SCAPREQ ___________________

SCABASE ___________________ SCARES ___________________ ACalOG ___________________ Operator Initials ______ Date ______

DISTRIBUTION
Original – Catalog & Curriculum Manager
Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE  School of Computing  DEPARTMENT __________________________

REQUEST IS FOR CHANGE IN COURSE  CSE 3411  Software Testing 1

Prefix  Number  Course Title

TO BE INCLUDED IN 2018/2019 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes  □ No  if yes, requested name __________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes  □ No  if yes, current credits __________________________ requested credits __________________________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  □ Yes  □ No  if yes, please check all that apply:

□ Add  □ Remove  □ Prerequisite  □ Corequisite  □ CSE 1002  □ and  □ or  CSE 1400  MTH 2051

□ Add  □ Remove  □ Prerequisite  □ Corequisite  □ CSE 2410  □ and  □ or

□ Add  □ Remove  □ Other Restrictions*  □ Yes  □ No  if yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/N, A-F, CEU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Pre-requisite: CSE 2410, or both ECE 2552 and ECE 3541

□ Yes  □ No  Is this request for the course to be used to measure program-level student learning outcomes?

□ Yes  □ No  Is this request for the course to satisfy the scholarly inquiry requirement? if yes, attach "Q" materials for review.

□ Yes  □ No  Will this change impact any existing programs? if yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs,
or Undergraduate Curriculum Committee Chair for placement on agenda.

1) __________________________  4/18/17
Original  Date

2) __________________________  4/18/17
Department Head/Program Chair  Date

3) __________________________  4/18/17
Dean or Associate Dean  Date

4) __________________________  Date
Chair, Graduate Council

OR

______________________________  Date
Chair, Undergraduate Curriculum Committee

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCACRSE __________________________  SCADCTL __________________________  SCAPREQ __________________________

SCABASE __________________________  SCARRIES __________________________  ACALOG __________________________  Operator Initials __________________________  Date __________________________

DISTRIBUTION
Original – Catalog & Curriculum Manager
Copy – Academic Unit

Florida Institute of Technology • Office of the Registrar

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE  School of Computing  DEPARTMENT  

REQUEST IS FOR CHANGE IN COURSE  CSE 4410  Software Project Management

Prefix  Number  Course Title

TO BE INCLUDED IN 2018/2019 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes  □ No  If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes  □ No  If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  □ Yes  □ No  If yes, please check all that apply:

□ Add  □ Remove  □ Prerequisite  □ Corequisite  CSE 2410  □ and  □ or

□ Add  □ Remove  □ Prerequisite  □ Corequisite  CSE 3421  □ and  □ or  CSE 4610

□ Add  □ Remove  □ Other Restrictions*  □ Yes  □ No  If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Pre-requisite: CSE 3421, CSE 4610

□ Yes  □ No  Is this request for the course to be used to measure program-level student learning outcomes?

□ Yes  □ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

□ Yes  □ No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1)  [Signature]  4/19/17  Chair, Graduate Council  Date

2)  [Signature]  4/19/17  OR  Date

3)  [Signature]  4/20/17  Chair, Undergraduate Curriculum Committee  Date

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCAISIE  SCADETL  SCAPREQ

SCABASE  SCARRES  ACALOG  Operator Initials  Date

DISTRIBUTION
Original - Catalog & Curriculum Manager
Copy - Academic Unit
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE  School of Computing

DEPARTMENT

REQUEST IS FOR CHANGE IN COURSE

PREFIX 4201

Software Development Projects 1

Course Title

TO BE INCLUDED IN 2018/2019 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, EU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Requirement: (Q) Prerequisites: CSE 2410 and CSE 3100

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Originator 4/18/17

2) Department Head/Program Chair 4/18/17

3) Dean or Associate Dean 4/20/17

4) Chair, Graduate Council  Date

OR

Chair, Undergraduate Curriculum Committee  Date

CATALOG & CURRICULUM MANAGER'S USE ONLY

SCACRSE SCADETL SCAPREQ

SCABASE SCARMES ACATALOG Operator Initials Date

DISTRIBUTION

Original - Catalog & Curriculum Manager

Copy - Academic Unit

Florida Institute of Technology • Office of the Registrar

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827 RGR-254-1015