25 Jan 2013

TO: Faculty Curriculum Committee
FR: Jim Bowring, Chair of the Curriculum Committee, Department of Computer Science

RE: Changing the Major / Minor in Computer Information Systems (INFS)

Please find attached the following documents:

1. Faculty Curriculum Committee Change/Delete Program Form with attachments
   a. Complete Major Curriculum
   b. Complete Minor Curriculum
   c. Chart of 4-year Degree Completion
   d. Minimum Number of Hours Statement
   e. Major Catalog Description and course list
   f. Minor Catalog Description and course list
   g. Degree Worksheet
   h. New Course: CSCI 315 Server-Side Web Programming Package
   i. New Course: CSCI 459 Service-Oriented Computing Package
   j. Letters from other Departments
      i. Mathematics - Mignone
      ii. Communications - Goodier
      iii. Marketing - Blose
      iv. Accounting – Delaurell
      v. Management and Entrepreneurship - Kent
FACULTY CURRICULUM COMMITTEE
CHANGE/DELETE PROGRAM FORM

Instructions:
• Please fill out all of the portions of the form that are specified in section B. You must do this before your request can move forward!
• Remember that your changes will not be implemented until the next catalog year at the earliest.
• If you have questions, please start by checking the detailed instructions on the website.
• Please feel free to contact the committee chair with any remaining questions you might have.

A. CONTACT INFORMATION.

Name: James Bowring          Phone: 953-0805          Email: bowringj@cofc.edu

School: SSM                  Department or Program: Computer Science

Name and Acronym of Major: Computer Information Systems INFS

B. CATEGORY OF REVIEW. Please check all that apply, then fill out the specified parts of the form.

☑ Change Request (fill out all sections)
  ☑ Add an existing course to requirements or electives
  ☑ Add a new course to requirements or electives (attach completed course form for each)
  ☒ Delete courses from requirements or electives
  ☐ Add or modify concentration, emphasis, or track (Note that emphases under 18 hours will not be noted on the transcript. All concentrations, emphases, tracks, etc., with 18 hours or more are called “concentration” on the transcript.)

☐ Terminate Program (fill out C, F, G, and H)
  ☐ Terminate degree
  ☐ Terminate major
  ☐ Terminate emphasis, concentration, or track

C. RATIONALE AND EXPLANATION. Please describe the request you are making and explain why you are making it.

Computer Science has offered a BS in Computer Information Systems (INFS) since 1980. That degree program has been in need of a refresh for some time now. Additionally, the proposed changes better differentiate the BS INFS degree program from the BS Computer Science program. Computer Science students will continue to learn to be greenfield (creational approach) software developers through traditional CS theory and practice. INFS students will learn more about data and how to compose code (compositional approach) to deliver business value (including entrepreneurship) from software systems with an emphasis on distributed systems.
D. CURRICULUM. For revised programs, please attach the complete curriculum. Distinguish between required and elective courses, and note any prerequisites, co-requisites, sequencing, or other restrictions. Provide the catalog description and course list exactly as they should appear in the catalog. For each new course, submit the Curriculum Committee’s Course Form and a sample syllabus.

ATTACHMENTS:

1. Complete Major Curriculum
2. Complete Minor Curriculum
3. Chart of 4-year Degree Completion
4. Minimum Number of Hours Statement
5. Major Catalog Description and course list
6. Minor Catalog Description and course list
7. Degree Worksheet
8. New Course: CSCI 315 Server-Side Web Programming Package
9. New Course: CSCI 459 Service-Oriented Computing Package
10. Letters from other Departments
   1. Mathematics - Mignone
   2. Communications - Goodier
   3. Marketing - Blose
   4. Accounting - Delaurell
   5. Management and Entrepreneurship - Kent
### E. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>What will students know and be able to do when they complete the major or program?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>1. Understand the fundamental principles and techniques of computer science, mathematics, and relevant business context and can apply them in solving real-world problems appropriate to the discipline.</td>
<td>Seniors will be required to submit a term paper demonstrating their understanding, once per year, graded via rubric.</td>
</tr>
<tr>
<td>2. Are familiar with current, widely-accepted computing practices in industry and can use distributed application and database technologies to effect high-quality, computer-based solutions to real world problems.</td>
<td>Seniors will be required to write software as a service in CSCI 459, once per year. Graded as part of the exam for the course.</td>
</tr>
</tbody>
</table>

**Additional Outcomes or Comments:**
F. IMPACT ON EXISTING PROGRAMS AND COURSES. Please describe the impact of this request on other programs and courses. If you are deleting a minor, please describe the effect on all programs that will be impacted; if you are adding or changing a minor, please explain any overlap with existing programs at the College.

MAJOR
Added:
Entrepreneurship: Add ENTR 320 and ENTR 321 as new requirements.

Modified:
Calculus: Option of MATH 120 or MATH 105
Statistics: Option of MATH 250 or MATH 204

No Change:
Accounting: No change. ACCT 203 and ACCT 204 are still required
Communication: No Change. COMM 104 still required.
Decision Science: No Change. DSCI 232 still required.
Management: No Change. MGMT 301 still required.

Dropped:
Finance: Drop FINC 303 as a requirement.
Discrete Math: Drop MATH 307 as a required course.

MINOR
Added:
Entrepreneurship: Add ENTR 320 as a new requirement.

Modified:
Calculus: Option of MATH 120 or MATH 105
Statistics: Option of MATH 250 or MATH 204

G. COSTS ASSOCIATED WITH THE REQUESTED ACTION. List all of the new costs or cost savings (including new faculty/staff requests, library, or equipment) associated with your request.

NONE

H. CHECKLIST

☐ I have completed all relevant parts of the form.
☐ I have attached a cover letter that describes my request and lists all the documents I am submitting.
☐ I have attached a Course Form for each newly-created or modified course.
☐ (For proposals that affect other departments in any way) I have attached an acknowledgement from the relevant department.
☐ I have provided the complete curriculum for the program, concentration, emphasis, etc., including the description and course list, exactly as it should appear in the catalog.
I. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:

   [Signature]

   Date: 2-6-13

2. Signature of Academic Dean:

   [Signature]

   Date: 2/11/13

3. Signature of Provost:

   [Signature]

   Date: 3/7/13

4. Signature of Curriculum Committee Chair:

   [Signature]

   Date: ________________

5. Signature of Budget Committee Chair:

   [Signature]

   Date: ________________

6. Signature of Academic Planning Committee Chair:

   [Signature]

   Date: ________________

7. Signature of Faculty Senate Secretary:

   [Signature]

   Date: ________________

Date Approved by Faculty Senate: ________________
### Complete Major Curriculum

<table>
<thead>
<tr>
<th>Computer Information Systems (INFS)</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Major Requirements start Fall 2013</strong></td>
<td></td>
</tr>
<tr>
<td>Computer Science Course SEQUENCE</td>
<td>Computer Science Course SEQUENCE</td>
</tr>
<tr>
<td>CSCI 115</td>
<td>Website Design I</td>
</tr>
<tr>
<td>CSCI 215</td>
<td>Website Programming</td>
</tr>
<tr>
<td>CSCI 220</td>
<td>Computer Programming I</td>
</tr>
<tr>
<td>CSCI 220L</td>
<td>Computer Programming I Laboratory</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Computer Programming II</td>
</tr>
<tr>
<td>CSCI 315</td>
<td>Server Side Web Programming (NEW)</td>
</tr>
<tr>
<td>CSCI 332</td>
<td>Database Concepts</td>
</tr>
<tr>
<td>CSCI 380</td>
<td>User Interface Development</td>
</tr>
<tr>
<td>CSCI 392</td>
<td>Computer Science Seminar</td>
</tr>
<tr>
<td>CSCI 459</td>
<td>Service-Oriented Computing (NEW)</td>
</tr>
<tr>
<td><strong>Discovery Informatics Course</strong></td>
<td>Discovery Informatics Course</td>
</tr>
<tr>
<td>DISC 210</td>
<td>Dataset Organization and Management</td>
</tr>
<tr>
<td>Mathematics Course SEQUENCE</td>
<td>Mathematics Course SEQUENCE</td>
</tr>
<tr>
<td>MATH 120 or MATH 105</td>
<td>Introductory Calculus or MATH 105 Calculus for Business and Social Sciences</td>
</tr>
<tr>
<td>MATH 207</td>
<td>Discrete Structures I</td>
</tr>
<tr>
<td>MATH 250 or MATH 104</td>
<td>Statistical Methods I or MATH 104 Elementary Statistics</td>
</tr>
<tr>
<td><strong>Communications Course SEQUENCE</strong></td>
<td>Communications Course SEQUENCE</td>
</tr>
<tr>
<td>COMM 104</td>
<td>Public Speaking</td>
</tr>
<tr>
<td><strong>Business Course SEQUENCE</strong></td>
<td>Business Course SEQUENCE</td>
</tr>
<tr>
<td>ACCT 203</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ACCT 204</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>DSCI 232</td>
<td>Business Statistics</td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
</tr>
<tr>
<td><strong>Entrepreneurship Course SEQUENCE</strong></td>
<td>Entrepreneurship Course SEQUENCE</td>
</tr>
<tr>
<td>ENTR 320</td>
<td>Principles of Entrepreneurship, Junior standing</td>
</tr>
<tr>
<td>ENTR 321</td>
<td>New Venture Planning</td>
</tr>
</tbody>
</table>
Complete Minor Curriculum

<table>
<thead>
<tr>
<th>Computer Information Systems (INFS) Minor Requirements start Fall 2013</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Science Course SEQUENCE</strong></td>
<td><strong>Computer Science Course SEQUENCE</strong></td>
</tr>
<tr>
<td>CSCI 115</td>
<td>Website Design I</td>
</tr>
<tr>
<td>CSCI 215</td>
<td>Website Programming</td>
</tr>
<tr>
<td>CSCI 220</td>
<td>Computer Programming I</td>
</tr>
<tr>
<td>CSCI 220L</td>
<td>Computer Programming I Laboratory</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Computer Programming II</td>
</tr>
<tr>
<td>CSCI 332 OR DISC 210 OR CSCI 315</td>
<td>Database Concepts</td>
</tr>
<tr>
<td><strong>Mathematics Course SEQUENCE</strong></td>
<td><strong>Mathematics Course SEQUENCE</strong></td>
</tr>
<tr>
<td>MATH 105 OR MATH 120</td>
<td>Calculus for Business and Social Sciences</td>
</tr>
<tr>
<td>MATH 207</td>
<td>Discrete Structures I</td>
</tr>
<tr>
<td><strong>Entrepreneurship Course</strong></td>
<td><strong>Entrepreneurship Course</strong></td>
</tr>
<tr>
<td>ENTR 320</td>
<td>Principles of Entrepreneurship, Junior standing</td>
</tr>
</tbody>
</table>
Students can graduate in 4 years. Below is a sample schedule.

<table>
<thead>
<tr>
<th>Sample MAJOR Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>CSCI 115 (3)</td>
</tr>
<tr>
<td>ENGL 110 (4)</td>
</tr>
<tr>
<td>History I (3)</td>
</tr>
<tr>
<td>Gen Elective I (3)</td>
</tr>
<tr>
<td>Language I (3)</td>
</tr>
<tr>
<td>16 Credits</td>
</tr>
</tbody>
</table>

| **Year 3**               | **Year 4**               |
| **Fall**                  | **Spring**               | **Fall**                  | **Spring**               |
| CSCI 315(3)               | CSCI 332 (3)             | CSCI 459 (3)              | CSCI 392 (3)             |
| COMM 104 (3)              | ACCT 204 (3)             | CSCI 380 (3)              | ENTR 321 (3)             |
| ACCT 203 (3)              | DSCI 232 (3)             | MGMT 301 (3)              | Humanities IV (3)        |
| Humanities I (3)          | Humanities II (3)        | ENTR 320 (3)              | Social Sci II (3)        |
| Gen Elective IV (3)       | Social Sci I (3)         | Humanities III (3)        | Gen Elective V (3)       |
| 15 Credits                | 15 Credits               | 15 Credits                | 15 Credits               |
ATTACHMENT #4
Minimum Number of Hours to Complete Major

The minimum number of credit hours for the program is now 61, down from 64 credit hours. Students who do not start in Calculus will possibly have to complete MATH 101 and MATH 111 in addition for a total of 68 credit hours.

ATTACHMENT #5

Major Catalog Description and course list

Computer Information Systems Major Requirements
Degree: Bachelor of Science
Credit Hours: 61 (minimum)
"PR" indicates a pre-requisite, "CO" indicates a co-requisite.
Courses within this major may also satisfy general education requirements. Please consult for more information.

Required Courses
CSCI 115 Website Design (3)
CSCI 215 Website Programming (3)
CSCI 220 Computer Programming I (3) PR: CSCI 120 or CSCI 180 or CSCI 210 or MATH 111 CO: CSCI 220
CSCI 220L Computer Programming I Lab (1) CO: CSCI 220
CSCI 221 Computer Programming II (3) PR: CSCI 220, CSCI 220L; CO or PR: MATH 207
CSCI 315 Server-Side Web Programming (3) PR: CSCI 215, CSCI 221
CSCI 332 Database Concepts (3) PR: CSCI 221, MATH 207
CSCI 380 User Interface Development (3) PR: CSCI 221, MATH 207, or instructor permission
CSCI 392 Seminar on Computing and Society (3) PR: CSCI 221
CSCI 459 Service Oriented Computing (3) PR: 221 and CSCI 315 or CSCI 230

Data Science Requirement
DISC 210 Dataset Organization and Management (3) PR: None

Math Requirement
MATH 120 Introductory Calculus (4) PR: MATH 111 or placement
OR
MATH 105 Calculus for Business and the Social Sciences (3) PR: MATH 101 or placement
MATH 207 Discrete Structures I (3) PR: MATH 105, MATH 111, or MATH 120
MATH 250 Statistical Methods (3) PR: MATH 111 or MATH 120 or instructor permission
OR
MATH 104 Elementary Statistics (3) PR: MATH 101 or placement

Communications Requirement
COMM 104 Public Speaking (3) PR: None

Business Requirement
ACCT 203 Financial Accounting (3) PR: Sophomore standing
ACCT 204 Managerial Accounting (3) PR: Sophomore standing; ACCT 203
DSCI 232 Business Statistics (3) PR: MATH 104 or MATH 250
MGMT 301 Management and Organizational Behavior (3) PR: Junior standing
ENTR 320 Principles of Entrepreneurship
ENTR 321 New Venture Planning (3) PR: ACCT 203, MGMT 301, ENTR 320
ATTACHMENT #6

Minor Catalog Description and course list

Computer Information Systems Minor Requirements
Credit Hours: 28+

Minor Requirements:
At least nine credit hours in the minor at the 200 level or above must be earned at the College of Charleston.

CSCI 115 Website Design (3)
CSCI 215 Website Programming (3)
CSCI 220 Computer Programming I (3) PR: CSCI 120 or CSCI 180 or CSCI 210 or MATH 111 CO: CSCI 220L
CSCI 220L Computer Programming I Lab (1) CO: CSCI 220
CSCI 221 Computer Programming II (3) PR: CSCI 220, CSCI 220L; CO or PR: MATH 207
CSCI 332 Database Concepts (3) PR: CSCI 221, MATH 207
OR
DISC 210 Dataset Organization and Management (3) PR: None
OR
CSCI 315 Server Side Web Programming (3) PR: CSCI 215, CSCI 221

Math Requirement:
MATH 120 Introductory Calculus (4) PR: MATH 111 or placement
OR
MATH 105 Calculus for Business and the Social Sciences (3) PR: MATH 101 or placement
MATH 207 Discrete Structures I (3) PR: MATH 105, MATH 111, or MATH 120

Business Requirement
ENTR 320 Principles of Entrepreneurship
### General Education Requirements

A minimum of 122 credit hours is required for graduation.

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>ENGL 110</th>
<th>ENGL</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ENGL 110 is required unless credit is awarded for AP, IB and/or Transfer English credit.</td>
<td></td>
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</tr>
<tr>
<td>• Students with credit for English 101 &amp; 102 (6 hrs) satisfy the General Education requirement for English.</td>
<td></td>
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</tr>
<tr>
<td>• Students with English 101 credit (3 hrs) must complete English 110 (4 hrs) or 215 (3 hrs).</td>
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<td></td>
</tr>
<tr>
<td>• Students with English 102 credit (3 hrs) must complete English 110 (4 hrs) or 215 (3 hrs).</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HISTORY</th>
<th>Pre-Modern History</th>
<th>Modern History</th>
</tr>
</thead>
<tbody>
<tr>
<td>• (Six semester hours): Complete one course in pre-modern history and one course in modern history from the list of approved courses satisfying the history requirement. The two courses do not have to be taken from the same department or in sequence.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/history-requirement.pdf">http://advising.cofc.edu/pdf/history-requirement.pdf</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NATURAL SCIENCE</th>
<th>Lecture</th>
<th>Lecture</th>
<th>Lab</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Eight semester hours (of which two semester hours must be earned in the accompanying laboratories): an introductory or higher sequence from one of the following: Astronomy (ASTR), Biology (BIOL), Chemistry (CHEM), Geology (GEOL), Physics (PHYS).</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MATHEMATICS/LOGIC</th>
<th>MATH 120 or MATH 104</th>
<th>MATH 207</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Six semester hours of approved courses in mathematics or logic, in any combination.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/math-logic-requirement.pdf">http://advising.cofc.edu/pdf/math-logic-requirement.pdf</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOREIGN LANGUAGE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Satisfactory completion of the 202 level or its equivalent from one of the following: ARBC, CHNS, FREN, GREK, GRMN, HBRW, HNDI, ITAL, JPN, LATN, PORT, RUSS, or SPAN. (Native speakers of languages other than English may be exempt from further language study, contact the School of Languages, Cultures and World Affairs.)</td>
<td></td>
</tr>
<tr>
<td>• Course level depends on placement. If you are beginning a new language, start with the 101 level.</td>
<td></td>
</tr>
<tr>
<td>• Recommendation from the Computer Science Department: Consider French to participate more easily in the Computer Science exchange program (taught in English) at the University of La Rochelle, in La Rochelle, France. Consider German or Italian to participate more easily in the Computer Science exchange program (taught in English) at the Johannes Kepler University in Linz, Austria.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HUMANITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Twelve semester hours from the approved Humanities areas with no more than six semester hours in any one of the areas (except interdisciplinary HONS). For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/humanities.pdf">http://advising.cofc.edu/pdf/humanities.pdf</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL SCIENCES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Six semester hours from one or two of the approved social science areas. For a complete listing of approved courses, please consult your degree audit or visit: <a href="http://advising.cofc.edu/pdf/social-sciences.pdf">http://advising.cofc.edu/pdf/social-sciences.pdf</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIRST-YEAR EXPERIENCE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• All entering students with less than one year of college experience are required to complete a First-Year Experience (First-Year Seminar (FSYM), a Learning Community (LC), or an Honors College First-Year Experience course) within their first three consecutive academic terms.</td>
<td></td>
</tr>
<tr>
<td>• For a complete listing of approved courses, please visit: <a href="http://www.cofc.edu/fye">www.cofc.edu/fye</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL ELECTIVES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Required hours will vary for each student.</td>
<td></td>
</tr>
</tbody>
</table>
- - - - - Requirements for B.S. Computer Science (43 hours) - - - - -

You must achieve a minimum cumulative GPA of 2.00 in major area courses: (CSCI 200 or higher).

**CORE COURSES (34 HRS):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 115</td>
<td>Website Design</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 215</td>
<td>Website Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 220</td>
<td>Computer Programming I</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 220L</td>
<td>Computer Programming I Lab</td>
<td>(1)</td>
</tr>
<tr>
<td>CSCI 221</td>
<td>Computer Programming II</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 315</td>
<td>Server-Side Web Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 332</td>
<td>Database Concepts</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 380</td>
<td>User Interface Development</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 392</td>
<td>Seminar on Computing and Society</td>
<td>(3)</td>
</tr>
<tr>
<td>CSCI 459</td>
<td>Service Oriented Computing</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**DATA SCIENCE REQUIREMENT (3 HRS):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA 210</td>
<td>Dataset Organization and Management</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**MATH REQUIREMENT (3 HRS INCLUDING THE 6-7 HOURS OF GENERAL EDUCATION REQUIREMENT (MATH 104 or MATH 120 & MATH 207)):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 104</td>
<td>Elementary Statistics</td>
<td>(3)</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 250</td>
<td>Statistical Methods I</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**COMMUNICATION REQUIREMENT (3 HRS):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 104</td>
<td>Public Speaking</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**BUSINESS REQUIREMENT (18 HRS):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 203</td>
<td>Financial Accounting</td>
<td>(3)</td>
</tr>
<tr>
<td>ACCT 204</td>
<td>Managerial Accounting</td>
<td>(3)</td>
</tr>
<tr>
<td>DSCI 232</td>
<td>Business Statistics</td>
<td>(3)</td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Management and Organizational Behavior</td>
<td>(3)</td>
</tr>
<tr>
<td>ENTR 320</td>
<td>Principles of Entrepreneurship</td>
<td>(3)</td>
</tr>
<tr>
<td>ENTR 321</td>
<td>New Venture Planning</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**NOTES:**

*Updated May 2011. Subject to change without notice.*
25 Jan 2013

TO: Faculty Curriculum Committee
FR: Jim Bowring, Chair of the Curriculum Committee, Department of Computer Science

RE: New Course CSCI 315 Server-Side Web Programming

Please find attached the following documents:

1. Faculty Curriculum Committee Course Form
2. Example Syllabus
FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
• Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
• Fill out the parts of the form specified in part B. You must do this before your request can move forward!
• Remember that your changes will not be implemented until the next catalog year at the earliest.
• If you have questions, please start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT/COURSE INFORMATION.

Name: James Bowring Phone: 953-0805 Email: bowring@cofc.edu

Department or Program: Computer Science School: SSM

Subject Acronym and Course Number: CSCI 315

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☑ Add a New Course (complete parts C, D, F, G, H, I, J, K)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J, K)
☐ Course Number
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☐ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J, K)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J, K)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

This course completes the three-course sequence required for comprehensive education in Web-based technologies. (The other two existing courses in the sequence are CSCI 115 · Website Design and CSCI 215 · Website Programming.) This course is a critical component of the updated Computer Information Systems (INFS) degree program.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

This course is required in the revised Computer Information Systems (INFS) Major and is part of that package.

This course may be taken as a major elective course in the following majors:

BS Computer Science
BA Computer Science
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: School: Subject Acronym: Course number:
Credit hours: _ _ lecture _ _ lab _ _ seminar _ _ independent study Pass/fail? □ yes □ no
Contact hours: _ _ lecture _ _ lab _ _ seminar _ _ independent study

Course title:
Course description (maximum 50 words, exactly as it appears in the catalog):

Restrictions (pre-requisites, co-requisites, majors only, etc.):

Cross-listing, if any:
Is this course repeatable? □ yes □ no If yes, how many total credit hours may the student earn? ______

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department: CS School: SSM Subject Acronym: CSCI Course Number: 315
Credit hours: _ _ _ _ lecture _ _ _ _ lab _ _ _ _ seminar _ _ _ _ independent study Pass/fail? □ yes □ no
Contact hours: _ _ _ _ lecture _ _ _ _ lab _ _ _ _ seminar _ _ _ _ independent study

Course title: Server-Side Web Programming
Course description (maximum 50 words, exactly as it appears in the catalog):
This course focuses on server-side web development using current technologies. The course balances conceptual topics with practical skills for designing, implementing, and modeling web services and data structures. Students learn key technologies and the roles they play in distributed computing. Topics include: serialization, server-side databases, and security issues.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
PRE: CSCI 215, CSCI 221

Cross-listing, if any (submit approval from relevant department):

Is this course repeatable? □ yes □ no If yes, how many total credit hours may the student earn? ______

Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $25
Note: The Senate cannot approve new fees; Business Affairs will submit any such request to the Board of Trustees. The course can still be created, but the fee will not be attached until the Board has approved it.

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? __________ Note: You must deactivate the course by submitting an additional Course Form.
G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

NONE

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>What will students know and be able to do when they complete the course?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>1. Design schema for XML or similar semi-structured data representations.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Assessed at end of each semester.</td>
</tr>
<tr>
<td>2. Use tools to consume, transform, and generate XML or similar semi-structured data representations.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Assessed at end of each semester.</td>
</tr>
<tr>
<td>3. Write server-side web programs and services.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Assessed at end of each semester.</td>
</tr>
<tr>
<td>4. Develop websites that utilize server-side programming.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Assessed at end of each semester.</td>
</tr>
</tbody>
</table>

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

See CSCI-315 Course Description.

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? If so, please explain briefly and attach a Change Minor or Change Major/Program Form as appropriate.

Please see revised Major Computer Information Systems (INFS) of which this is a part.
J. CHECKLIST.

☐ I have completed all relevant parts of the form.

☐ I have attached a cover letter that describes my request and lists all the documents I am submitting.

☐ (For new courses only) I have attached a syllabus.

☐ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.

☐ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

K. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:

[Signature]
Date: 2-6-13

2. Signature of Academic Dean:

[Signature]
Date: 2/11/13

3. Signature of Provost:

[Signature]
Date: 3/7/13

4. Signature of Business Affairs (only for course fees):

[Signature]
Date: ________________ ☐ fee approved on ________________
☐ BOT approval pending

5. Signature of Curriculum Committee Chair:

[Signature]
Date: ________________

6. Signature of Faculty Senate Secretary:

[Signature]
Date: ________________

Date Approved by Faculty Senate: ________________
Syllabus  
CSCI 315 — Server Side Web Programming — Fall 2013

Contact Information
Instructor: Christine Moore  
Office Hours: As posted on door and in OAKS  
Email: moorec@cofc.edu  
Phone: 953-4997  
Website: http://moorec.people.cofc.edu

Course Description
This course focuses on server-side web development using current technologies. The course balances conceptual topics with practical skills for designing, implementing, and modeling web services and data structures. Students learn key technologies and the roles they play in distributed computing. Topics include: serialization, server-side databases, and security issues.

Prerequisite: CSCI 215, CSCI 221

Required Textbooks & Resources

Learning Outcomes
At the end of the course, students will be able to:
1. Design schema for XML or similar semi-structured data representations.
2. Use tools to consume, transform, and generate XML or similar semi-structured data representations.
3. Write server-side web programs and services.
4. Develop websites that utilize server-side programming.

Grades
<table>
<thead>
<tr>
<th>Labs &amp; Projects</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>15%</td>
</tr>
<tr>
<td>Test 2</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Attendance &amp; Partic.</td>
<td>10%</td>
</tr>
</tbody>
</table>

Grading Scale

A+ 93-100
A- 90-92
B+ 88-89
B  83-87
B- 80-82
C+ 78-79
C  73-77
C- 70-72
D  60-69
Computer & Cell Phone Policy
We are in a classroom where everyone has a computer in front of them. There will be times when I will ask you to use the computer for an in-class activity, but other than that I don't expect you to use them while we are having class discussions or student presentations. In this class, you are forbidden from wearing headphones, texting, using Facebook, or using electronic devices in any way that is disruptive to learning.

Academic Integrity and Other Expected Behavior
All students are expected to adhere to the College of Charleston's Honor Code (Bulletin & Student Handbook). Be sure to familiarize yourself with the XF grade and the honor code system. Any violation of these rules and guidelines will be treated accordingly.

Disability Accommodation
Any student who feels he or she may need an accommodation based on the impact of a disability should contact me individually to discuss your specific needs. Also, please contact the College of Charleston, Center for Disability Services http://www.cofc.edu/~cds for additional help.

Attendance and Late Assignments
Class attendance is critical to your success in this class. For classes that meet three days a week, no more three (3) unexcused absences are permitted. For classes that meet two (2) days a week, no more than two (2) unexcused absences are permitted. Excess absences will result in 5 points being taken off your Final Grade.

You are responsible for all activities in each class, whether you are present or not. You are allowed to make-up classwork and tests only if you have an excused absence.

No late assignments will be accepted.
25 Jan 2013

TO: Faculty Curriculum Committee
FR: Jim Bowring, Chair of the Curriculum Committee, Department of Computer Science

RE: New Course CSCI 459 Service-Oriented Computing

Please find attached the following documents:

1. Faculty Curriculum Committee Course Form
2. Example Syllabus
FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, please start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT/COURSE INFORMATION.

Name: James Bowring    Phone: 953-0805    Email: bowringj@cofc.edu
Department or Program: Computer Science    School: SSM
Subject Acronym and Course Number: CSCI 459

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J, K)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J, K)
- Course Number
- Course Name
- Course Description
- Credit/Contact Hours
- Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J, K)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J, K)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

CSCI 459 is an upper level course for students in the Computer Information Systems (INFS) major covering the service-oriented computing paradigm and modeling processes and notations for business applications. The course covers the notion of software as a service and service orientation principles and design patterns. The course also involves students in the programming and programmatic use of software as a service.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

This course may be taken as a major elective in BS Computer Science and BA Computer Science.
This course is required in the modified INFS Major, of which is a submittal attachment.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: 
School: 
Subject Acronym: 
Course number: 

Credit hours: _ _ lecture _ _ lab _ _ seminar _ _ independent study 
Pass/fail? □ yes □ no

Contact hours: _ _ lecture _ _ lab _ _ seminar _ _ independent study 

Course title:

Course description (maximum 50 words, exactly as it appears in the catalog):

Restrictions (pre-requisites, co-requisites, majors only, etc.):

Cross-listing, if any:

Is this course repeatable? □ yes □ no If yes, how many total credit hours may the student earn? ___

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department: Computer Science  
School: SSM 
Subject Acronym: CSCI  
Course Number: 459

Credit hours: _3_ lecture _ _ lab _ _ seminar _ _ independent study  
Pass/fail? □ yes □ no

Contact hours: _3_ lecture _ _ lab _ _ seminar _ _ independent study 

Course title:

Course description (maximum 50 words, exactly as it appears in the catalog):

This course explores both Service-Oriented Architecture (SOA) and Business Process Management (BPM) enterprise software layers. Students will learn how business and IT concerns can be aligned. Students gain experience with service-oriented software development, process modeling and execution, and securing services.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
CSCI 221 Computer Programming II (3 hrs)
CSCI 315 XML Processing and Technology (3 hrs) OR CSCI 230 Data Structures and Algorithms (3 hrs)

Cross-listing, if any (submit approval from relevant department):

Is this course repeatable? □ yes □ no If yes, how many total credit hours may the student earn? ___

Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $_ 25_

Note: The Senate cannot approve new fees; Business Affairs will submit any such request to the Board of Trustees. The course can still be created, but the fee will not be attached until the Board has approved it.

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? ______________ Note: You must deactivate the course by submitting an additional Course Form.
G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

NONE

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>What will students know and be able to do when they complete the course?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>1. To explain Business Process Management, the Service Oriented Computing stack of technologies, and to describe the relationship between OOD and service design.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Semester assessed.</td>
</tr>
<tr>
<td>2. To describe the goals of Service Oriented Computing and to contrast Service Oriented Computing and component architecture.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Semester assessed.</td>
</tr>
<tr>
<td>3. To apply a set of Service Oriented Architecture design principles and design patterns to design and deploy a service, and to program an application that makes use of at least one service.</td>
<td>Measured by testing. Mastery threshold &gt;= 70%. Semester assessed.</td>
</tr>
</tbody>
</table>

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

This is the last course in the required computer science sequence in the INFS degree. This course integrates knowledge from previous courses and prepares students to apply it in the workplace.

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? If so, please explain briefly and attach a Change Minor or Change Major/Program Form as appropriate.

This course is required for Computer Information Systems (INFS).
J. CHECKLIST.

☒ I have completed all relevant parts of the form.

☒ I have attached a cover letter that describes my request and lists all the documents I am submitting.

☒ (For new courses only) I have attached a syllabus.

☐ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.

☐ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

K. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:

   [Signature] Date: 2-6-13

2. Signature of Academic Dean:

   [Signature] Date: 2/11/13

3. Signature of Provost:

   [Signature] Date: 3/7/13

4. Signature of Business Affairs (only for course fees):

   [Signature] Date: ____________ ☐ fee approved on ____________ ☐ BOT approval pending

5. Signature of Curriculum Committee Chair:

   [Signature] Date: ____________

6. Signature of Faculty Senate Secretary:

   [Signature] Date: ____________

Date Approved by Faculty Senate: ____________
Computer Science 459
Service-Oriented Computing
Fall 2013

Professor: Christopher W. Starr, PhD
Office: Rm 224, JC Long Building
Office Hours: Posted on office door
Contact Information: starrc@cofc.edu
Office Phone: 843 953-8150

Course Description
This course explores both Service-Oriented Architecture (SOA) and Business Process Management (BPM) enterprise software layers. Students will learn how business and IT concerns can be aligned. Students gain experience with service-oriented software development, process modeling and execution, and securing services.

Course Prerequisite:
1. CSCI 315 Server Side Web Technologies (3 hrs)

Student Knowledge Assumptions:
1. Design and programming skills in an object oriented programming language.

Required Texts:
SOA Principles of Service Design. Thomas Erl. Prentice Hall. 2007. 0132344823 (978-0132344821)

SOA Design Patterns. Thomas Erl. Prentice Hall. 2009. 0136135161 (978-0136135166)

Topic Areas:
Service Oriented Computing paradigm
Service-oriented architecture
Service design principles
Service design patterns
Service deployment
Business Process Modeling Notation
Business Process Execution Language
Business Process Management

Course Outcomes (Learning outcomes):
1. To explain Business Process Management
2. To explain the Service Oriented Computing stack of technologies
3. To describe the relationship between OOD and service design
4. To describe the goals of Service Oriented Computing
5. To contrast Service Oriented Computing and component architecture
6. To apply a set of Service Oriented Architecture design principles
7. To apply a set of Service Oriented Architecture design patterns
8. To design and deploy a service (Web or REST)
9. To program an application that makes use of at least one service
10. To model processes using Business Process Modeling Notation
11. To read code in Business Process Execution Language
12. To describe the relationship between Service Oriented Computing and event driven architecture

**Final Grade Computation:**

1. Test 1 .......................... 10 %
2. Test 2 .......................... 20 %
3. Exam ............................ 30 %
4. Projects ......................... 30 %
5. Discussion Engagement .......... 10 %

**Course Policies:**

1) Grading Scale:  A: 90-100; B: 80-89; C: 70-79; D: 65-79F: <65. Plus and minus grades are given at the discretion of the instructor.

2) Attendance:
   Attendance at regular classes is not mandatory, but is a great way to engage the material. Attendance for tests and the exam is expected (rescheduling for sickness and travel is accommodated).

3) Electronics Devices:
   The use of electronic devices, both stand-alone and network capable, will play an increasingly important role in teaching and learning at the College of Charleston, including their use in our classrooms. Just be respectful about unnecessary distractions to you and to others seated around you.

4) Network Access:
   Use the resource during class. Often you can help the discussion by some JIT research on a topic of interest.

5) Academic Integrity:
   Students are expected to work independently in this course unless specified otherwise.

**Necessary Tools:**

1. A Platform (Windows, Linux or Mac) machine.
2. An Internet connection for access to OAKS (web-based course management system) and to download development software.
3. Email account (provided through OAKS; can be forwarded)
4. Other open source/academic license tooling as needed.

**Disability Accommodation:**

Any student who feels he or she may need an accommodation based on the impact of a disability should contact me individually to discuss your specific needs. Also, please contact the College of Charleston, Center for Disability Services http://www.cofc.edu/~cds/ for additional help.
Subject: Re: Computer Science: Request for letter of support for program change (major and minor) to Computer Information Systems.

Date: Monday, November 19, 2012 2:16:01 PM Eastern Standard Time

From: Mignone, Robert J

To: Starr, Christopher Wilson, DeLaurell, Roxane M, Mack, Rhonda W, Goodier, Bethany C, Blose, Julia E

Chris,

The Math Department accepts these changes.

Bob

P.S. I thought I had communicated our acceptance earlier.

From: <Starr>, Christopher Wilson <StarrC@cofc.edu>
Date: Monday, November 19, 2012 2:02 PM
To: Roxane DeLaurell <DeLaurellR@cofc.edu>, "Mack, Rhonda W" <MackR@cofc.edu>, Robert Mignone <MignoneR@cofc.edu>, "Goodier, Bethany C" <GoodierB@cofc.edu>, "Blose, Julia E" <BloseJ@cofc.edu>
Cc: "Bowring, Jim" <BowringJ@cofc.edu>

Subject: Computer Science: Request for letter of support for program change (major and minor) to Computer Information Systems.

All:
About two months ago I sent to you a request for support of a program change. I am following up as the semester comes to an end.

Beth,
Thank you for the support by COMM for the updated BS in Computer Information Systems by Computer Science.

Bob,
I responded to your question about why we changed the math courses. Can MATH support the changes also?

Rhonda, Roxane, and Julia,
If it would be easier, I would be happy to make an appointment with you to go over the program change proposal for the major and minor in Computer Information Systems. I still seek your support before this program change can move to the Faculty Curriculum Committee.

Attached is a pdf file for the major and one for the minor. With it you can easily tell the changes from the left column (current requirements) to the right column (proposed requirements).

Thanks to all,

Chris

From: <Starr>, Chris Starr <StarrC@cofc.edu>
Date: Monday, September 24, 2012 3:13 PM
To: "DeLaurell, Roxane M" <DeLaurellR@cofc.edu>, "Mack, Rhonda W" <MackR@cofc.edu>, "Mignone, Robert J" <MignoneR@cofc.edu>, "Goodier, Bethany C" <GoodierB@cofc.edu>, "Blose, Julia E" <BloseJ@cofc.edu>
Rhonda, Roxane, Bob, Beth and Julia,

I would like to introduce you to a program change and ask if you and your department can support the change as it may affect your department’s enrollments in courses that contribute to this major. The attachment describes the current degree requirements and the proposed degree requirements by course. I will be happy to come to your office to explain in person.

Background. Computer Science has offered a BS in Computer Information Systems (INFS) since 1980. That degree program has been in need of a refresh for some time now. Attached is a proposal from the CS department that is intended to bring the INFS degree program into this century. One goal of the CS faculty is to differentiate the INFS degree program from the BS Computer Science program. You will note the major change in CS course requirements. The differentiation is this. Computer Science students will learn to be greenfield (creational approach) software developers through traditional CS theory and practice. INFS students will learn more about data and how to compose code (compositional approach) to deliver business value (including entrepreneurship) from software systems with an emphasis on distributed systems. In summary, here are the items to note by area:

COMM
No change. COMM 104 is still required.

ACCT
No change. ACCT 203 and ACCT 204 are still required.

MATH
Change. Students can take either Math 105 or MATH 120 (not just MATH 120). Students can take either MATH 104 or MATH 250 (not just MATH 250). MATH 307 is dropped.

DSCI
Change. DSCI 232 is still required. DSCI 314 and DSCI 406 are added as required courses.

MGMT
No change. MGMT 301 is still required.

FINC
Change. FINC 303 is dropped.

ENTR
Change. ENTR 320 and ENTR 321 are added as required courses.

Enrollments: Currently the INFS degree program has exactly 20 majors (as of today) from freshman to senior year. Thus the enrollment impact is minimal. The goal is to increase the number of majors. The CS faculty believe that an update with differentiation is the best approach to revitalize the program. We aim to bring the major headcount up to about 40 as it was back in prior decades. If that happens, we will see an increase in the demand for the courses that CS has selected to contribute to the updated program.

Request: To move forward with a proposal I will need a letter of support (or an email) if your department can absorb the new enrollments into the courses for the updated, BS INFS program.

Thank you for your consideration of this request.

Chris
Thanks for your message, Chris. We are happy to provide this email of support for your program change. As I understand it, the impact on COMM would be minimal as COMM 104 would still be required and increasing program size from 20-40 would be negligible in terms of seats in our courses.

Good luck with your proposal and please let us know how we can be of assistance to you.

Best,
Beth

Bethany C. Goodier, Ph.D.
Associate Professor and Chair
Department of Communication
College of Charleston
66 George Street
Charleston, SC 29424
(843) 953-7420 (Telephone)
(843) 953-7037 (Fax)
Office located in 9 College Way

From: <Starr>, Christopher Wilson <StarrC@cofc.edu>
Date: Monday, September 24, 2012 4:13 PM
To: "Delaurell, Roxane M" <DelaurellR@cofc.edu>, "Mack, Rhonda W" <MackR@cofc.edu>, "Mignone, Robert J" <MignoneR@cofc.edu>, "Goodier, Bethany C" <goodierb@cofc.edu>, "Blose, Julia E" <BloseJ@cofc.edu>
Cc: Jim Bowring <bowringj@cofc.edu>
Subject: Computer Science: Request for letter of support for INFS program change

Rhonda, Roxane, Bob, Beth and Julia,
I would like to introduce you to a program change and ask if you and your department can support the change as it may affect your department's enrollments in courses that contribute to this major. The attachment describes the current degree requirements and the proposed degree requirements by course. I will be happy to come to your office to explain in person.

Background. Computer Science has offered a BS in Computer Information Systems (INFS) since 1980. That degree program has been in need of a refresh for some time now. Attached is a proposal from the CS department that is intended to bring the INFS degree program into this century. One goal of the CS faculty is to differentiate the INFS degree program from the BS Computer Science program. You will note the major change in CS course requirements. The differentiation is this. Computer Science students will learn to be greenfield (creational approach) software developers through traditional CS theory and practice. INFS students will learn more about data and how to compose code (compositional approach) to deliver business value (including entrepreneurship) from software systems with an emphasis on distributed systems. In summary, here are the items to note by area:

COMM
No change. COMM 104 is still required.

ACCT
No change. ACCT 203 and ACCT 204 are still required.

MATH
Change. Students can take either Math 105 or MATH 120 (not just MATH 120). Students can take either MATH 104 or MATH 250 (not just MATH 250). MATH 307 is dropped.

DSCI
Change. DSCI 232 is still required. DSCI 314 and DSCI 406 are added as required courses.

MGNT
No change. MGMT 301 is still required.

FINC
Change. FINC 303 is dropped.

ENTR
Change. ENTR 320 and ENTR 321 are added as required courses.

Enrollments: Currently the INFS degree program has exactly 20 majors (as of today) from freshman to senior year. Thus the enrollment impact is minimal. The goal is to increase the number of majors. The CS faculty believe that an update with differentiation is the best approach to revitalize the program. We aim to bring the major headcount up to about 40 as it was back in prior decades. If that happens, we will see an increase in the demand for the courses that CS has selected to contribute to the updated program.

Request: To move forward with a proposal I will need a letter of support (or an email) if your department can absorb the new enrollments into the courses for the updated, BS INFS program.

Thank you for your consideration of this request.
Chris
Subject: RE: follow-up regarding the computer information systems major curriculum proposal

Date: Tuesday, January 15, 2013 12:04:21 PM Eastern Standard Time

From: Blose, Julia E

To: Starr, Christopher Wilson

Thanks Chris!

Please do let us know if we can help in the future.

julie

From: Starr, Christopher Wilson

Sent: Tuesday, January 15, 2013 10:54 AM

To: Blose, Julia E

Subject: Re: follow-up regarding the computer information systems major curriculum proposal

Julia,

Just following up to let you know that the CS faculty have removed the INTB 314 and the DSCI 406 from the program change proposal, but they kept DSCI 232 as a requirement for the modified program, just as it currently is for the existing program. I do appreciate your offer to loop you in as program changes in the future might potentially include existing or future courses from Marketing and Supply Chain Management.

So at this time, the proposal to change BS INFS Computer Information Systems major does not change (add or remove) any courses from Marketing and Supply Chain Management. The BS INFS program will still require DSCI 232. We still hope to increase the major population to accommodate about 6 students per semester in DSCI 232. Attached is a summary of the new set of INFS courses, FYI.

Since CSCI is not making any changes relative to Marketing and Supply Chain Management, I will withdraw my request for a letter of support of changes that affect Marketing and Supply Chain Management.

Thank you and your faculty for their time and attention.

Best regards,

Chris

From: Blose, Julia E <blosej@cofc.edu>

Date: Friday, January 4, 2013 11:50 AM

To: Chris Starr <StarrC@cofc.edu>

Subject: follow-up regarding the computer information systems major curriculum proposal

Hi Chris:

The Marketing and Supply Chain Management department discussed the computer information systems major curriculum proposal at its December meeting.

a. Members agreed that we support the proposal to add the INTB 314 class to the requirements for the major.

b. On the other hand, we have not offered the DSCI 406 course in many years. If I remember correctly, you indicated you expect demand for the course to be no more than 6 students per semester. Members did not feel this level of demand justified starting to offer the course again now.

- However, as we move forward, there are several programs in development stages in our department that may generate demand for this course as well so that starting to offer the class at some future date may make sense. The specific requirements of these programs are yet to be determined at this time though.

- If you can let us know if there was anything specific you were hoping students would learn in this course, we'd be
happy to try to help by suggesting an alternative in the meantime.

Happy New Year!
thanks,

julie
Subject: Re: Computer Science: Request for letter of support for program change (major and minor) to Computer Information Systems.

Date: Tuesday, November 20, 2012 9:59:46 AM Eastern Standard Time

From: Delaurell, Roxane M

To: Starr, Christopher Wilson

Chris:
I have no problem with the ACCT 203 and 204 being part of your major.
Roxane

On 11/19/12 2:02 PM, "Starr, Christopher Wilson" <StarrC@cofc.edu> wrote:

All:
About two months ago I sent to you a request for support of a program change. I am following up as the semester comes to an end.

Beth,
Thank you for the support by COMM for the updated BS in Computer Information Systems by Computer Science.

Bob,
I responded to your question about why we changed the math courses. Can MATH support the changes also?

Rhonda, Roxane, and Julia,
If it would be easier, I would be happy to make an appointment with you to go over the program change proposal for the major and minor in Computer Information Systems. I still seek your support before this program change can move to the Faculty Curriculum Committee.

Attached is a pdf file for the major and one for the minor. With it you can easily tell the changes from the left column (current requirements) to the right column (proposed requirements).

Thanks to all,
Chris

From: <Starr>, Chris Starr <StarrC@cofc.edu>
Date: Monday, September 24, 2012 3:13 PM
To: "Delaurell, Roxane M" <DelaurellR@cofc.edu>, "Mack, Rhonda W" <MackR@cofc.edu>, "Mignone, Robert J" <MignoneR@cofc.edu>, "Goodier, Bethany C" <GoodierB@cofc.edu>, "Blose, Julia E" <BloseJ@cofc.edu>
Cc: "Bowring, Jim" <BowringJ@cofc.edu>
Subject: Computer Science: Request for letter of support for INFS program change

Rhonda, Roxane, Bob, Beth and Julia,
I would like to introduce you to a program change and ask if you and your department can support the change as it may affect your department's enrollments in courses that contribute to
this major. The attachment describes the current degree requirements and the proposed
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department can absorb the new enrollments into the courses for the updated, BS INFS
program.

Thank you for your consideration of this request.
Chris
1 Feb 2013.

This page is a placeholder for the letter of support from Tom Kent of Management and Entrepreneurship. Letter is anticipated for 5 Feb 2013.
Subject: ENTR courses
Date: Friday, February 8, 2013 2:47:33 PM Eastern Standard Time
From: Kent, Thomas W
To: Starr, Christopher Wilson

Chris: the department met yesterday and discussed your proposal. We feel we can support your proposal only up to 15 students per semester. At that point we will need to add a line to the faculty. We do not believe that a line will be forthcoming to support this proposal so we must limit the number of students that we admit to the courses ENTR 320 and 321. Let me know if you have any questions about this.

Tom Kent, Ph. D.
Chair, Department of Management & Entrepreneurship
Professor, Organizational & Leadership Studies
Department of Management & Entrepreneurship
School of Business
College of Charleston
843-953-7658