Memo

Date: September 21, 2011
From: Chris Starr, Computer Science
To: Jen Wright, Chair, Curriculum Committee
Re: Packet of CSCI course changes

Thank you for considering the following packet for course changes. These changes are driven by changes in technology that beg for concomitant changes in 9 course descriptions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI110</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI112</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI114</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI220</td>
<td>Edit course description</td>
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<tr>
<td>CSCI221</td>
<td>Edit course description</td>
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<tr>
<td>CSCI230</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI320</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI360</td>
<td>Edit course description</td>
</tr>
<tr>
<td>CSCI362</td>
<td>Edit course description</td>
</tr>
</tbody>
</table>
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring         Email: bowringj@cofc.edu     Phone: 953.0805

Department or Program Name: Computer Science School name: Sciences and Math

Course Prefix, Number, and Title: CSC1110 Computer Fluency

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

□ New Course (attach syllabus)

□ Change Number
□ Change Title
□ Change Credits/Contact hours
□ Prerequisite Change
□ Edit Description

□ Approve for Cross-listing (attach rationale and written permission from relevant department)

□ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) □ Yes □ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

B. Credit Hours

Is this course repeatable? □ yes □ no If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION  Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

An introduction to computing, providing the student with the ability to understand and use emerging technology effectively. Topics include, but are not limited to: how computers work, the ubiquity of computing, applications and operating systems software, cloud computing, the internet and networks, and computing issues. Lectures three hours per week.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

Old description was out of date.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

<table>
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<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
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<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 examine emerging trends and innovations in the communications and IT fields.</td>
<td>Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass.</td>
</tr>
<tr>
<td>2. To effectively make decisions and solve problems related to information technology.</td>
<td>ditto</td>
</tr>
<tr>
<td>3. To demonstrate an understanding of how the Internet and other networks work.</td>
<td>ditto</td>
</tr>
<tr>
<td>4. To demonstrate an understanding of ethical, security and legal issues that arise in connection with information technology.</td>
<td>ditto</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 course is a general elective not linked to computer science majors.
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:

   
   
   
   Date: 9-20-11

2. Signature of Academic Dean:

   
   
   
   Date: 9-27-11

3. Signature of Provost:

   
   
   
   Date: 11/11/11

4. Signature of Curriculum Committee Chair:

   
   
   
   Date:

5. Signature of Faculty Senate Secretary:

   
   
   
   Date:

Date Approved by Faculty Senate:

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring Email: bowringj@cofc.edu Phone: 953.0805

Department or Program Name: Computer Science School name: Sciences and Math

Course Prefix, Number, and Title: CSC1112 Communications Technology and the Internet

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

<table>
<thead>
<tr>
<th>NEW COURSE</th>
<th>CHANGE COURSE</th>
<th>DELETE COURSE</th>
</tr>
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<tbody>
<tr>
<td>☐ New Course (attach syllabus)</td>
<td>☐ Change Number</td>
<td>☐ Re-activate Course</td>
</tr>
<tr>
<td></td>
<td>☐ Change Title</td>
<td>☐ Delete Course</td>
</tr>
<tr>
<td></td>
<td>☐ Change Credits/Contact hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ Prerequisite Change</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☒ Edit Description</td>
<td></td>
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</tbody>
</table>

☐ Approve for Cross-listing (attach rationale and written permission from relevant department)

☐ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

__________________________________________________________

B. Credit Hours

Is this course repeatable? ☐ yes ☐ no If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

An introduction to digital communications technology. Topics include networking concepts, Internet and intranet tools, protocols, and security. Also included are the infrastructure and governance of the Internet, with emphasis on personal, business, social, legal, and ethical implications. Lectures three hours per week.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

Old description was out of date.

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<tr>
<td>1. To be familiar with the history of the Internet, with HTML, XML, and content syndication.</td>
<td>Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass.</td>
</tr>
<tr>
<td>2. To understand social networking concepts.</td>
<td>ditto</td>
</tr>
<tr>
<td>3. To be familiar with Internet protocols and services: HTTP, FTP, TCP, IP, Cloud computing, semantic web, etc.</td>
<td>ditto</td>
</tr>
<tr>
<td>4. To be familiar with Internet security.</td>
<td>ditto</td>
</tr>
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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 course is a general elective not linked to computer science majors.**
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:

   [Signature]  Date: 9-21-11

2. Signature of Academic Dean:

   [Signature]  Date: 9-27-11

3. Signature of Provost:

   [Signature]  Date: 11/11/11

4. Signature of Curriculum Committee Chair:

   [Signature]  Date:

5. Signature of Faculty Senate Secretary:

   [Signature]  Date:

Date Approved by Faculty Senate: ______________________________

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring Email: bowringj@cofc.edu Phone: 953.0805

Department or Program Name: Computer Science School name: Sciences and Math

Course Prefix, Number, and Title: CSC1114 Electronic Publishing and Design

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

- NEW COURSE
  □ New Course (attach syllabus)

- CHANGE COURSE
  □ Change Number
  □ Change Title
  □ Change Credits/Contact hours
  □ Prerequisite Change
  □ Edit Description

- DELETE COURSE
  □ Re-activate Course
  □ Delete Course

□ Approve for Cross-listing (attach rationale and written permission from relevant department)

□ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) □ Yes □ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

B. Credit Hours

Is this course repeatable? □ yes □ no If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

An investigation of electronic publishing, design theory and practice. Through the use of advanced application software skills, students will explore the tools of electronic communication, such as desktop publishing, website design, introductory graphics and Internet resources. Lectures three hours per week.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

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V. STUDENT LEARNING OUTCOMES and ASSESSMENT

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<td>What will students know and be able to do when they complete the course?</td>
<td></td>
</tr>
<tr>
<td>1. To perform basic image creation and editing with editing software.</td>
<td>Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass.</td>
</tr>
<tr>
<td>2. To make appropriate design decisions based on the publication and its audience.</td>
<td>ditto</td>
</tr>
<tr>
<td>3. To design, create and publish web pages consistent with design principles and with current technology standards.</td>
<td>ditto</td>
</tr>
<tr>
<td>4. To understand and abide by intellectual property rights and licensing in the production of all publications.</td>
<td>ditto</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 course is a general elective not linked to computer science majors.
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:

   Christyle A. Stan

   Date: 01-21-11

2. Signature of Academic Dean:

   William Ald

   Date: 09-27-11

3. Signature of Provost:

   James J. St

   Date: 11-1-11

4. Signature of Curriculum Committee Chair:

   Date: 

5. Signature of Faculty Senate Secretary:

   Date: 

Date Approved by Faculty Senate:

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring Email: bowringj@cofc.edu Phone: 953.0805

Department or Program Name: Computer Science School name: Sciences and Math

Course Prefix, Number, and Title CSC1220 Computer Programming I

I. CATEGORY OF REVIEW (Check all that apply) (Note: For changes to course, if you check more than two separate changes, you must create a new course.)

NEW COURSE

☐ New Course (attach syllabus)

CHANGE COURSE

☐ Change Number
☐ Change Title
☐ Change Credits/Contact hours
☐ Prerequisite Change
☒ Edit Description

DELETE COURSE

☐ Re-activate Course
☐ Delete Course

☐ Approve for Cross-listing (attach rationale and written permission from relevant department)

☐ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

B. Credit Hours

Is this course repeatable? ☐ yes ☐ no If so, how many credit hours may the student earn in this course?
An introduction to programming and problem solving using Java. Topics include data types, variables, assignment, control structures (selection and iteration), arrays, methods, classes, and an introduction to object-oriented programming. Lectures three hours per week. Prerequisite: CSCI120 or CSCI180 or CSCI210 or MATH111 or permission of the department; Co-requisite: CSCI220L.

Old description was out of date.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

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1. SEE ATTACHED COURSE DESCRIPTION | Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass. |
2. | ditto |
3. | ditto |
4. | ditto |

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 ATTACHED COURSE DESCRIPTION AND PROGRAM OUTCOMES
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:

   [Signature]

   Date: 9-21-11

2. Signature of Academic Dean:

   [Signature]

   Date: 9-27-11

3. Signature of Provost:

   [Signature]

   Date: 11-11-11

4. Signature of Curriculum Committee Chair:

   [Signature]

   Date: 

5. Signature of Faculty Senate Secretary:

   [Signature]

   Date: 

Date Approved by Faculty Senate: 

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring          Email: bowringj@cofc.edu    Phone: 953.0805

Department or Program Name: Computer Science    School name: Sciences and Math

Course Prefix, Number, and Title: CSC1221 Computer Programming II

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

NEW COURSE          CHANGE COURSE          DELETE COURSE
--------------------(Skip sections below that do not apply)-----------------

☐ New Course (attach syllabus)

☐ Change Number
☐ Change Title
☐ Change Credits/Contact hours
☐ Prerequisite Change
☐ Edit Description
☐ Re-activate Course
☐ Delete Course

☐ Approve for Cross-listing (attach rationale and written permission from relevant department)

☐ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes    ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

Lecture    Lab    Seminar    Ind. Study

A. Contact Hours

B. Credit Hours

Is this course repeatable? ☐ yes ☐ no    If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION  Limit to 50 words EXACTLY as you want it to appear in the catalog: include prerequisites, co-requisites, and other restrictions.

This course further develops object-oriented programming introduced in CSCI220. Topics include file input/output, inheritance and polymorphism, exceptions, error handling, and algorithm analysis. Lectures three hours per week. Prerequisites: CSCI 220 and 222.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

Old description was out of date.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

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<tr>
<td>1. SEE ATTACHED COURSE DESCRIPTION</td>
<td>Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass.</td>
</tr>
<tr>
<td>2.</td>
<td>ditto</td>
</tr>
<tr>
<td>3.</td>
<td>ditto</td>
</tr>
<tr>
<td>4.</td>
<td>ditto</td>
</tr>
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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 ATTACHED COURSE DESCRIPTION AND PROGRAM OUTCOMES
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:
   
   [Signature]
   
   Date: 07-21-11

2. Signature of Academic Dean:

   [Signature]
   
   Date: 09-27-11

3. Signature of Provost:

   [Signature]
   
   Date: 11-11-11

4. Signature of Curriculum Committee Chair:

   [Signature]
   
   Date:

5. Signature of Faculty Senate Secretary:

   [Signature]
   
   Date:

Date Approved by Faculty Senate:

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring  Email: bowringj@cofc.edu  Phone: 953.0805

Department or Program Name: Computer Science  School name: Sciences and Math

Course Prefix, Number, and Title CSCI230 Data Structures and Algorithms

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

NEW COURSE
- [] New Course (attach syllabus)

CHANGE COURSE
- [] Change Number
- [] Change Title
- [] Change Credits/Contact hours
- [] Prerequisite Change
- [] Edit Description

DELETE COURSE
- [] Re-activate Course
- [] Delete Course

- [] Approve for Cross-listing (attach rationale and written permission from relevant department)

- [] Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) [] Yes  [] No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Ind. Study</th>
</tr>
</thead>
</table>

B. Credit Hours

Is this course repeatable? [] yes [] no  If so, how many credit hours may the student earn in this course?
### III. CATALOG DESCRIPTION
Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

This course develops abstract data types as mathematical models. Data structures and algorithms are developed as the objects and operations of abstract data types. Topics include lists, stacks, queues, trees, graphs, searching, sorting, and analysis of the efficiency of algorithms. Lectures three hours per week. Prerequisites: CSCI221 and MATH207.

### IV. RATIONALE or JUSTIFICATION:
*If course change or deletion*—please provide reasons for change(s) to or deletion of a course. *If a new course*—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

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<td>ditto</td>
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<td>3.</td>
<td>ditto</td>
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<td>4.</td>
<td>ditto</td>
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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 ATTACHED COURSE DESCRIPTION AND PROGRAM OUTCOMES

### VII. IMPACT ON EXISTING PROGRAMS and COURSES:
Please briefly document the impact of this new/changed/deleted course on other programs and courses; if *deleting a course*—list all programs that
include the course; if *adding/changing a course*—explain any overlap with existing courses in the same or different departments.

n/a

**VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED:** List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

**IX. APPROVAL AND SIGNATURES**

1. Signature of Department Chair or Program Director:
   
   [Signature]
   
   Date: 9-21-11

2. Signature of Academic Dean:
   
   [Signature]
   
   Date: 9-27-11

3. Signature of Provost:
   
   [Signature]
   
   Date: 11-11-11

4. Signature of Curriculum Committee Chair:
   
   Date:

5. Signature of Faculty Senate Secretary:
   
   Date:

   Date Approved by Faculty Senate:

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring   Email: bowringj@cofc.edu   Phone: 953.0805

Department or Program Name: Computer Science   School name: Sciences and Math

Course Prefix, Number, and Title: CSCI320 Programming Language Concepts

I. CATEGORY OF REVIEW (Check all that apply)

(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

NEW COURSE

☐ New Course (attach syllabus)

CHANGE COURSE

☐ Change Number
☐ Change Title
☐ Change Credits/Contact hours
☐ Prerequisite Change
☑ Edit Description

DELETE COURSE

☐ Re-activate Course
☐ Delete Course

☐ Approve for Cross-listing (attach rationale and written permission from relevant department)

☐ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes    ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

B. Credit Hours

Is this course repeatable? ☐ yes ☐ no   If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

This course introduces the formal study of programming language specifications and develops an understanding of the structure and run-time organization of imperative programming languages. Topics include data types, control structures, functional programming, logic programming, procedure mechanisms, and data abstraction. Lectures three hours per week. Prerequisites: CSC1221 and MATH207.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

Old description was out of date.

V. STUDENT LEARNING OUTCOMES and ASSESSMENT

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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 ATTACHED COURSE DESCRIPTION AND PROGRAM OUTCOMES
VII. IMPACT ON EXISTING PROGRAMS and COURSES: Please briefly document the impact of this new/changed/deleted course on other programs and courses; if deleting a course—list all programs that include the course; if adding/changing a course—explain any overlap with existing courses in the same or different departments.

n/a

VIII. COSTS ASSOCIATED WITH THE ACTION REQUESTED: List all of the new costs or cost savings, (including new faculty/staff requests, library or equipment, etc.) associated with the action requested.

none

IX. APPROVAL AND SIGNATURES

1. Signature of Department Chair or Program Director:
   
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   Date: 9-27-11

3. Signature of Provost:
   
   [Signature]  
   Date: 11/8/11

4. Signature of Curriculum Committee Chair:
   
   [Signature]  
   Date: 

5. Signature of Faculty Senate Secretary:
   
   [Signature]  
   Date: 

Date Approved by Faculty Senate: 

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring                Email: bowringj@cofc.edu    Phone: 953.0805

Department or Program Name: Computer Science    School name: Sciences and Math

Course Prefix, Number, and Title: CSCI360 Software Architecture and Design

I. CATEGORY OF REVIEW (Check all that apply)

(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

NEW COURSE

☐ New Course (attach syllabus)

CHANGE COURSE

☐ Change Number
☐ Change Title
☐ Change Credits/Contact hours
☐ Prerequisite Change
☒ Edit Description

DELETE COURSE

☐ Re-activate Course
☐ Delete Course

☐ Approve for Cross-listing (attach rationale and written permission from relevant department)

☐ Intended to fulfill a General Education requirement (new courses only). If this box is checked, the course must also be submitted for review by the General Education Committee using this form.

Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes   ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours


B. Credit Hours

Is this course repeatable? ☐ yes ☐ no  If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

This course covers the object-oriented analysis and design of software. Topics include the unified modeling-language, domain modeling, software architecture, design processes, principles, heuristics, and patterns. Student teams analyze, design, and implement a software system. Related ethical issues are explored. Lectures three hours per week. Prerequisite: CSCI230. Pre/Co-requisite: COMM104.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

Old description was out of date.

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1. SEE ATTACHED COURSE DESCRIPTION | Outcomes will be assessed using a combination of homework, projects, and testing. Students are expected to pass. |

2. | ditto |

3. | ditto |

4. | ditto |

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?

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n/a

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none

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5. Signature of Faculty Senate Secretary:

   [Signature]

   Date: 

Date Approved by Faculty Senate: 

Following Senate approval, the Faculty Senate Secretary will forward the entire packet to the Registrar.
FACULTY CURRICULUM COMMITTEE COURSE FORM

Contact Name: Jim Bowring          Email: bowringj@cofc.edu  Phone: 953.0805

Department or Program Name: Computer Science  School name: Sciences and Math
Course Prefix, Number, and Title CSCI362 Software Engineering

I. CATEGORY OF REVIEW (Check all that apply)
(Note: For changes to course, if you check more than two separate changes, you must create a new course.)

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Date (Semester/Year) the course will first be offered:

What are the prerequisites AND OTHER RESTRICTIONS (e.g., class level, major, co-requisite, credit for a mutually exclusive course)?

n/a

Will this course be added to the Degree Requirements of a Major, Minor, Concentration or List of Approved Electives?

a) ☐ Yes   ☐ No

b) If yes, complete and attach the CHANGE DEGREE REQUIREMENT form(s) for each affected program. List the name(s) of each program affected below:

n/a

II. NUMBER OF CREDITS and CONTACT HOURS per week

A. Contact Hours

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B. Credit Hours

Is this course repeatable? ☐ yes ☐ no  If so, how many credit hours may the student earn in this course?
III. CATALOG DESCRIPTION Limit to 50 words EXACTLY as you want it to appear in the catalog; include prerequisites, co-requisites, and other restrictions.

This course examines the discipline and practice of software engineering, providing historical and contemporary views, while examining software development process models with emphasis on the pertinent roles, activities, and artifacts present at each stage of development. Related ethical issues are explored. Lectures three hours per week. Prerequisite: CSCI 230. Pre/Co-requisite: COMM 104.

IV. RATIONALE or JUSTIFICATION: If course change or deletion—please provide reasons for change(s) to or deletion of a course. If a new course—briefly address the goals/objectives for the course, how the course supports a major or minor program, etc. For non-major courses address how the course supports the liberal arts tradition and the mission of the institution.

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