February 12, 2014

Dear Faculty Curriculum Committee,

Attached in this packet is a collection of catalog changes requested by the Department of Computer Science. All changes are to existing courses and do not result in a change in Student Learning Outcomes or their assessment. The specific changes requested are spelled out below.

1. CSCI 220 - Two changes requested.
   a. All mention of the language Java and its concepts have been removed from the catalog description as this course is no longer taught using that language.
   b. The pre-requisite related to math readiness will read “MATH 111 or higher math.” This is different from the existing description which has the express pre-requisite of MATH 111.

2. CSCI 320 - The pre-requisite of CSCI 221 will change to “CSCI 230 with a C or better.”

3. CSCI 362 - The pre-requisite of CSCI 230 will change to “CSCI 221 with a C or better.”

4. CSCI 420 - The pre-requisite of CSCI 230, CSCI 320 and MATH 307 will change to “CSCI 320 and MATH 307.”

5. The following courses will have their pre-requisites change to include the language “C or better” for all CSCI pre-requisite courses.
   a. CSCI 221
   b. CSCI 230
   c. CSCI 250
   d. CSCI 299
   e. CSCI 310
   f. CSCI 325
   g. CSCI 332
   h. CSCI 334
   i. CSCI 340
   j. CSCI 350
   k. CSCI 360
   l. CSCI 380
   m. CSCI 392
   n. CSCI 462
   o. CSCI 470
   p. CSCI 480

   NOTE: All “C or better” prereqs should be changed to “C- or better.” --DLG 3/19/14

Please do not hesitate to contact me should you have any questions or need further clarification or documentation.

Thank you for your time and consideration,

RoxAnn H. Stalvey
RoxAnn H. Stalvey, Associate Chair
Department of Computer Science
stalveyr@cofc.edu
FACULTY CURRICULUM COMMITTEE
SIGNATURE PAGE

• In section A, list ALL of the forms covered by this signature page. If you submit a form that is not listed in A, your proposal will be held back until we receive a new, updated signature page.
• You must obtain the signature of your department chair and dean before submitting your proposal.

A. FORMS COVERED BY THIS SIGNATURE PAGE. List each form you are submitting—for instance, PSYC 383, Course Form; PSYC, Change of Major Form; PSYC, Change of Minor Form.

Course forms for:
CSCI 220, CSCI 320, CSCI 362, CSCI 420,
CSCI 221, CSCI 230, CSCI 250, CSCI 299, CSCI 310, CSCI 325, CSCI 332, CSCI 334,
CSCI 340, CSCI 350, CSCI 360, CSCI 380, CSCI 392, CSCI 462, CSCI 470, CSCI 480

B. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:
   _______________________________ Date: 2-19-14

2. Signature of Academic Dean:
   _______________________________ Date: 2/15/14

3. Signature of Provost:
   _______________________________ Date: 3/27/14

4. Signature of Business Affairs (only for course fees):
   _______________________________ Date: ________________
   □ fee approved on ____________
   □ BOT approval pending

5. Signature of Curriculum Committee Chair:
   _______________________________ Date: ________________

6. Signature of Budget Committee Chair (only for new programs):
   _______________________________ Date: ________________

7. Signature of Academic Planning Committee Chair (only for new programs):
   _______________________________ Date: ________________

8. Signature of Faculty Senate Secretary:
   _______________________________ Date: ________________

Date Approved by Faculty Senate: ________________
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, 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: RoxAnn H. Stalvey  Phone: 3-8153  Email: stalveyr@cofc.edu
Department or Program: Computer Science  School: School of Science and Math
Subject Acronym and Course Number: CSCI 220
Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

Two changes are requested. 1. The course is no longer taught using the programming language Java. Thus all mention of that language and the related concepts have been removed. A more generic description of the course is presented. 2. The prerequisite of MATH 111 will be changed to MATH 111 or higher. Presently, students that come to the College and begin their math coursework at the Calculus-level or higher are precluded from taking this course by the system and have to be manually overridden into the course. It is not the Department’s intent to preclude such qualified students from the course.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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.

Because the teaching methods used for the last several semesters will not change, these catalog changes should have no effect on other courses or programs. It is possible that a few more students annually will register for CSCI 220 because the system will no longer tell some advanced math students that they must take Pre-Calculus in order to register for the course. This possible enrollment increase will not significantly affect the number of students in the course.

This form was last updated on 12/13/13 and replaces all others.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science       School: SSM       Subject Acronym: CSCI       Course Number: 220

Credit hours: 3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Computer Programming I

Course description (maximum 50 words, exactly as it appears in the catalog):
An introduction to programming and problem solving. Topics include data types, variables, assignment, control structures (selection and iteration), lists, functions, classes, and an introduction to object-oriented programming. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.):
Prerequisite: CSCI 120 or CSCI 180 or CSCI 210 or MATH 111 or higher math or permission of the department.
Co-requisite: CSCI 220L.

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:       School:       Subject Acronym:       Course Number:

Credit hours:    ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☑ yes    ☐ no
If so, which course? __ __ __ __ __ __

If equivalent, will the newly-created course replace the existing course? ☑ yes    ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): __ __ __ __ __ __
Note: Cross-listed courses are equivalent.

This form was last updated on 12/13/13 and replaces all others.
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? $_____

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.

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

No cost is associated with this request.

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>
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</tr>
</tbody>
</table>

1. The SLOs will not change for this course.

2.

3.

4.

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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes  ☒ no
If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

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.

☑ I have submitted one Signature Form that lists all of the different forms I am submitting.
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, 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: RoxAnn H. Stalvey  Phone: 953-8153  Email: stalveyr@cofc.edu

Department or Program: Computer Science  School: School of Science and Math

Subject Acronym and Course Number: CSCI 221

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)

☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, O, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science School: SSM Subject Acronym: CSCI Course Number: 221

Credit hours: 3 lecture _ lab _ seminar _ independent study
Contact hours: _ lecture _ lab _ seminar _ independent study

Course title: Computer Programming II

Course description (maximum 50 words, exactly as it appears in the catalog):
This course further develops object-oriented programming introduced in CSCI 220. Topics include file input/output, inheritance and polymorphism, exceptions, error handling and algorithm analysis. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 220 with a grade of C or better and CSCI 220L with a grade of C or better. Corequisite: MATH 207

Cross-listing, if any:

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

G. 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: School: Subject Acronym: Course Number:

Credit hours: _ lecture _ lab _ seminar _ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? _______________

If equivalent, will the newly-created course replace the existing course? □ yes □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): _______________
Note: Cross-listed courses are equivalent.

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? $_____

This form was last updated on 12/13/13 and replaces all others.
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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? ☐ yes ☒ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
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.

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

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• If you have questions, 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: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 230

Catalog Year in which changes will take effect: FALL 2014

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)
- Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  - Course Number (you must submit a course deactivation request for the old 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)
- Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a prerequisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the prerequisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core prerequisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major prerequisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

RECEIVED
2/12/14

This form was last updated on 12/13/13 and replaces all others.
**F. EXISTING COURSE INFORMATION.** If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: **Computer Science**  
School: **SSM**  
Subject Acronym: **CSCI**  
Course Number: **230**

Credit hours: 3 lecture __ lab __ seminar __ independent study  
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: **Data Structures and Algorithms**

Course description (maximum 50 words, exactly as it appears in the catalog):  
CSCI 230 Data Structures and Algorithms (3) This course reviews and develops the abstract data type 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.

Restrictions (pre-requisites, co-requisites, majors only, etc.): **Prerequisites:** CSCI 221 with a grade of C or better and MATH 207.

Cross-listing, if any: 

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

**G. 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:  
School:  
Subject Acronym:  
Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study  
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes ☐ no  
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? ☐ yes ☐ no  
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________  
Note: Cross-listed courses are equivalent.

This form was last updated on 12/13/13 and replaces all others.
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? $___
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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
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<td>3.</td>
<td></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?

L. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
J. CHECKLIST.

☐ I have completed all relevant parts of the form.

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey          Phone: 953-8153          Email: stalveyr@cofc.edu

Department or Program: Computer Science   School: School of Science and Math

Subject Acronym and Course Number: CSCI 250

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  ☐ Course Number (you must submit a course deactivation request for the old 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)
  ☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science pre-requisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science    School: SSM    Subject Acronym: CSCI    Course Number: 250

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Introduction to Computer Organization and Assembly Language Programming

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 250 Introduction to Computer Organization and Assembly Language Programming (3) An introduction to an assembly language and its implementation in hardware. Topics include the binary and hexadecimal numbering systems, the fetch-execute cycle, the components of the central processing unit, floating point processing, memory, the assembler, and the linker. Programming exercises are developed in the assembly language of a commonly available processor. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 220 with a grade of C or better and 220L with a grade of C or better. Co-requisite or prerequisite: MATH 207.

Cross-listing, if any:

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

G. 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:    School:    Subject Acronym:    Course Number:

Credit hours:  __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes  □ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? □ yes  □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
Note: Cross-listed courses are equivalent.

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?  $____

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. 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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration?  ☐ yes  ☒ no
If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

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.

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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, 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: RoxAnn H. Stalvey Phone: 953-8153 Email: stalveyr@cofc.edu

Department or Program: Computer Science School: School of Science and Math

Subject Acronym and Course Number: CSCI 299

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  □ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student's GPA. Others in the Department permit D's but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 299

Credit hours:  3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Special Topics in Computer Science

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 299 Special Topics in Computer Science (3) A course focusing on a selected topic from the intermediate level of computer science. Such topics include languages not otherwise taught in the computer science curriculum, software and hardware interfacing, system usage, and specific applications programs. This course may be repeated for additional credit.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 220 with a grade of C or better and CSCI 220L with a grade of C or better.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes  ☐ no
If so, which course? __________

If equivalent, will the newly-created course replace the existing course? ☐ yes  ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): __________
Note: Cross-listed courses are equivalent.

This form was last updated on 12/13/13 and replaces all others.
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? $_____

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. 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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no
If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

J. CHECKLIST.

☐ I have completed all relevant parts of the form.

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

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Instructions:
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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey  Phone: 953-8153  Email: stalveyr@cofc.edu

Department or Program: Computer Science  School: School of Science and Math

Subject Acronym and Course Number: CSCI 310

Catalog Year in which changes will take effect: FALL 2014

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)
- [X] Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  - [ ] Course Number (you must submit a course deactivation request for the old course number)
  - [ ] Course Name
  - [ ] Course Description
  - [ ] Credit/Contact Hours
  - [X] Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
- [ ] Deactivate an Existing Course (complete parts C, D, E, G, I, J)
- [ ] Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. **Rationale:** In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
P. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science     School: SSM     Subject Acronym: CSCI     Course Number: 310

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Advanced Algorithms

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 310 Advanced Algorithms (3) A course that covers algorithms, focusing on computational complexity, approximation, classification, and optimization. Algorithms covered include evolutionary and genetic algorithms, gradient descent techniques, discrete optimization, branch-and-bound, dynamic and stochastic programming, combinatorial optimization and approximation algorithms.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better and MATH 207.

Cross-listing, if any:

Is this course repeatable? ☐ yes  ☒ no    If yes, how many total credit hours may the student earn? ____

G. 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:     School:     Subject Acronym:     Course Number:

Credit hours:   __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes  ☐ no
If so, which course? ______________

If equivalent, will the newly-created course replace the existing course? ☐ yes  ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ______________
Note: Cross-listed courses are equivalent.

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

This form was last updated on 12/13/13 and replaces all others.
Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $______

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

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☐ I have completed all relevant parts of the form.

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey Phone: 953-8153 Email: stalveyr@cofc.edu

Department or Program: Computer Science School: School of Science and Math

Subject Acronym and Course Number: CSCI 320

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
☐ Course Name
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☐ Credit/Contact Hours
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☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

Request: 1. The pre-requisite of CSCI 221 is being strengthened to CSCI 230. 2. The language “with a grade of C or better” is being added. Rationale: 1. Many concepts covered in CSCI 230 are needed in this course but because the pre-req is not in place needed material from CSCI 230 must be covered in CSCI 320 in order to prepare students for understanding of the concepts presented. 2. The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D's but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

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This change should not have an impact on other programs.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science School: SSM Subject Acronym: CSCI Course Number: 320

Credit hours: 3 lecture _ lab _ seminar _ independent study
Contact hours: _ lecture _ lab _ seminar _ independent study

Course title: Programming Language Concepts

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

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better and MATH 207.

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: School: Subject Acronym: Course Number:

Credit hours: _ lecture _ lab _ seminar _ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no If so, which course? ______________

If equivalent, will the newly-created course replace the existing course? □ yes □ no

Note: If yes, you must deactivate that course by submitting an additional Course Form.

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

Note: Cross-listed courses are equivalent.

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

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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.

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COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey                Phone: 953-8153                Email: stalveyr@cofc.edu

Department or Program: Computer Science    School: School of Science and Math

Subject Acronym and Course Number: CSCI 325

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)

☐ Course Number (you must submit a course deactivation request for the old course number)
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C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

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F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 325

Credit hours:  3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Functional and Logic Programming

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 325 Functional and Logic Programming (3) This course introduces various approaches to declarative (non-procedural) programming languages. Topics include mathematical functions and the lambda calculus; functional programming; sentential and predicate logic; and logic programming. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 221 with a grade of C or better and MATH 207.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours:  ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes ☐ no
If so, which course? _______

If equivalent, will the newly-created course replace the existing course? ☐ yes ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

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

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes  □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

This form was last updated on 12/13/13 and replaces all others.
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.

☐ I have submitted one Signature Form that lists all of the different forms I am submitting.
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, 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: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyrcofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 332

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☒ Restrictions (prerequisites, corequisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 332

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Database Concepts

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 332 Database Concepts (3) A course that introduces the student to the basic concepts, organization and implementation models of databases, with an emphasis on the relational model. Among the topics covered are data models, query languages, relational database design using normal forms and database programming, and information assurance and security. Problems will be assigned using a relational DBMS and SQL. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 221 with a grade of C or better and MATH 207.

Cross-listing, if any:

Is this course repeatable? ☐ yes ☒ no  If yes, how many total credit hours may the student earn? ____

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes ☐ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? ☐ yes ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
Note: Cross-listed courses are equivalent.

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

This form was last updated on 12/13/13 and replaces all others.
Is there an activity, lab, or other fee associated with this course? ☐ yes ☐ no What is the fee? $_____

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
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- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 334

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
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C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

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This change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  
School: SSM  
Subject Acronym: CSCI  
Course Number: 334

Credit hours:  3 lecture  _  lab  _  seminar  _  independent study
Contact hours:  _  lecture  _  lab  _  seminar  _  independent study

Course title: Data Mining

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 334 Data Mining (3) A course covering data mining concepts, methodologies, and programming. Topics include decision tables and trees, classification and association rules, clustering, pattern analysis, and linear and statistical modeling. Additional topics may include data cleaning and warehousing and techniques for text and web mining.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 221 with a grade of C or better, MATH 207 and MATH 250.

Cross-listing, if any:

Is this course repeatable?  ☐ yes  ☑ no  If yes, how many total credit hours may the student earn? __

G. 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:  
School:  
Subject Acronym:  
Course Number:  

Credit hours:  _  lecture  _  lab  _  seminar  _  independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course?  ☐ yes  ☐ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course?  ☐ yes  ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
Note: Cross-listed courses are equivalent.

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

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

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H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

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☐ I have completed all relevant parts of the form.

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey  Phone: 953-8153  Email: stalveyr@cofc.edu

Department or Program: Computer Science  School: School of Science and Math

Subject Acronym and Course Number: CSCI 340

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  ☐ Course Number (you must submit a course deactivation request for the old course number)
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  ☐ Credit/Contact Hours
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  ☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
  ☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

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This change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

RECEIVED
2/20/14

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 340

Credit hours:  3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Operating Systems

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 340 Operating Systems (3) The course will introduce operating systems principles with an emphasis on multiprogramming systems. Among the concept areas covered are real and virtual storage management, processor management, process synchronization and communication, IO management, and file management. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better, CSCI 250 with a grade of C or better and MATH 207.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes  □ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? □ yes  □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
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Is this course repeatable? □ yes  □ no If yes, how many total credit hours may the student earn? ___

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

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 350

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
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C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

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Page 1 of 4
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science School: SSM Subject Acronym: CSCI Course Number: 350

Credit hours: 3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Digital Logic and Computer Organization

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 350 Digital Logic and Computer Organization (3) A course designed to introduce the student to the basic principles of digital-logic design. Topics covered will include Boolean algebra and gate networks, flip-flops and logic design, the arithmetic-logic unit, memory units, input-output devices and interfacing, control units, and digital circuits. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 250 with a grade of C or better. Co-requisite or prerequisite: MATH 307.

Cross-listing, if any:

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

G. 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: School: Subject Acronym: Course Number:

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course?  □ yes  □ no
If so, which course? _______________

If equivalent, will the newly-created course replace the existing course?  □ yes  □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): _______________
Note: Cross-listed courses are equivalent.

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? $____

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I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

This form was last updated on 12/13/13 and replaces all others.
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.

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Instructions:
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- If you have questions, 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: RoxAnn H. Stalvey  Phone: 953-8153  Email: stalveyr@cofc.edu

Department or Program: Computer Science  School: School of Science and Math

Subject Acronym and Course Number: CSCI 360

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a prerequisite. This practice is a disservice to any such student's GPA. Others in the Department permit D's but encourage such students to not proceed to future courses without first retaking and improving performance in the prerequisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core prerequisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major prerequisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science School: SSM Subject Acronym: CSCI Course Number: 360

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Software Architecture and Design

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

CSCI 360 Software Architecture and Design (3) 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.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better. Co-requisite or prerequisite: COMM 104.

Cross-listing, if any:

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

G. 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: School: Subject Acronym: Course Number:

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes ☐ no
If so, which course? _______________________

If equivalent, will the newly-created course replace the existing course? ☐ yes ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): _______________________
Note: Cross-listed courses are equivalent.

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? $_____ 

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey 
Phone: 953-8153 
Email: stalveyr@cofc.edu

Department or Program: Computer Science 
School: School of Science and Math

Subject Acronym and Course Number: CSCI 362

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
  ☐ Course Number (you must submit a course deactivation request for the old course number)
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  ☐ Course Description
  ☐ Credit/Contact Hours
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  ☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
  ☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

Request: 1. The pre-requisite of CSCI 230 will be relaxed to CSCI 221. 2. The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: 1. A student having completed CSCI 221 is prepared for the material covered in CSCI 362. 2. The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student's GPA. Others in the Department permit D's but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs.

This form was last updated on 12/13/13 and replaces all others.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 362

Credit hours: 3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Software Engineering

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

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 221 with a grade of C or better. Corequisite or prerequisite: COMM 104.

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:  School:  Subject Acronym:  Course Number:

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course?  yes  no
If so, which course? __________________

If equivalent, will the newly-created course replace the existing course?  yes  no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): __________________
Note: Cross-listed courses are equivalent.

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? $_____

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

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration?  □ yes  □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
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COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey Phone: 953-8153 Email: stalveyr@cofc.edu

Department or Program: Computer Science School: School of Science and Math

Subject Acronym and Course Number: CSCI 380

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
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C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

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F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 380

Credit hours: 3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: User Interface Development

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 380 User Interface Development (3) Introduction to human-computer interaction and user interface development. Topics include human factors of interactive software, interactive styles, design principles and considerations, development methods and tools, interface quality, and evaluation methods. Stresses the importance of good interfaces and the relationship of user interface design to human-computer interaction. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 221 with a grade of C or better. Co-requisite or prerequisite: MATH 307.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number: 

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes  ☐ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? ☐ yes  ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
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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? $____

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

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COURSE FORM

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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 392

Catalog Year in which changes will take effect: FALL 2014

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)
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**Department:** Computer Science  
**School:** SSM  
**Subject Acronym:** CSCI  
**Course Number:** 392

- **Credit hours:** 3 lecture __ lab __ seminar __ independent study
- **Contact hours:** __ lecture __ lab __ seminar __ independent study

**Course title:** Seminar on Computing and Society

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

CSCI 392 Seminar on Computing and Society (3) A seminar course to prepare majors for careers in CS by discussing and studying professional, ethical, legal, and social issues and responsibilities in computing. Local and global impact of computing on individuals, organizations, and society will also be addressed. Oral presentations and written work will be required.

**Restrictions (pre-requisites, co-requisites, majors only, etc.):** **Prerequisites:** CSCI 221 with a grade of C or better.

**Cross-listing, if any:**

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

G. **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:**  
**School:**  
**Subject Acronym:**  
**Course Number:**

- **Credit hours:** __ lecture __ lab __ seminar __ independent study
- **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.):**

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

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- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, 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: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 420

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

Request: The pre-requisite of CSCI 230 is being removed. Rationale: It is imperative that students have CSCI 230 before taking this course. However, assuming that the pre-requisite change for CSCI 320 is approved, that course will now have CSCI 230 as its pre-req thus insuring that CSCI 420 students have taken CSCI 230.

IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs.
D. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science School: SSM Subject Acronym: CSCI Course Number: 420

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Principles of Compiler Design

Course description (maximum 50 words, exactly as it appears in the catalog):
A course in the formal treatment of programming language translation and compiler design concepts. Topics include scanners, parsers, and translation. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 320 and MATH 307.

Cross-listing, if any:

Is this course repeatable? ☐ yes ☒ no If yes, how many total credit hours may the student earn? __________

E. 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: School: Subject Acronym: Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☐ yes ☐ no
If so, which course? ___________

If equivalent, will the newly-created course replace the existing course? ☐ yes ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ___________
Note: Cross-listed courses are equivalent.

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? $_____
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.
F. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
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.

☐ I have submitted one Signature Form that lists all of the different forms I am submitting.
FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
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- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
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A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey          Phone: 953-8153          Email: stalveyr@cofc.edu

Department or Program: Computer Science          School: School of Science and Math

Subject Acronym and Course Number: CSCI 462

Catalog Year in which changes will take effect: FALL 2014

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)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D’s in their courses in order to prevent students progressing to courses for which that course is a pre-requisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the pre-requisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core pre-requisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major pre-requisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 462

Credit hours: 3 lecture ___ lab ___ seminar ___ independent study
Contact hours: ___ lecture ___ lab ___ seminar ___ independent study

Course title: Software Engineering Practicum

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 462 Software Engineering Practicum (3) This course provides hands-on experience in the practice of group-based software development. Student teams utilize development tools and techniques to implement software solutions to moderately complex problems. This project-based component provides a framework in which students gain both understanding and insight into the application of software engineering principles. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: COMM 104, CSCI 230 with a grade of C or better, either CSCI 360 or 362, and senior standing.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours: ___ lecture ___ lab ___ seminar ___ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? ☒ yes ☐ no
If so, which course? __________________

If equivalent, will the newly-created course replace the existing course? ☒ yes ☐ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): __________________
Note: Cross-listed courses are equivalent.

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? $_____

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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

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**H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.**

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1. SLOs will not change for this course.

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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?

---

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? ☐ yes ☒ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
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.

☐ I have submitted one Signature Form that lists all of the different forms I am submitting.
A. CONTACT/COURSE INFORMATION.

Name: RoxAnn H. Stalvey  
Phone: 953-8153  
Email: stalveyr@cofc.edu

Department or Program: Computer Science  
School: School of Science and Math

Subject Acronym and Course Number: CSCI 470

Catalog Year in which changes will take effect: FALL 2014

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, E, F, G, H, I, J)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, H, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

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

D. Request: The language “with a grade of C or better” is being added to prerequisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a prerequisite. This practice is a disservice to any such student’s GPA. Others in the Department permit D’s but encourage such students to not proceed to future courses without first retaking and improving performance in the prerequisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core prerequisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major prerequisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

RECEIVED 2/20/14  
This form was last updated on 12/13/13 and replaces all others.
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science  School: SSM  Subject Acronym: CSCI  Course Number: 470

Credit hours:  3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Principles of Artificial Intelligence

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 470 Principles of Artificial Intelligence (3) A course introducing fundamental techniques for artificial intelligence. Among topics covered are heuristic search, knowledge representation, intelligent agents, reasoning, neural networks, genetic algorithms, and artificial intelligence programming. Additional topics may include Bayesian networks, natural language processing, machine learning, rule-based systems, robotics, and data science.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better.

Cross-listing, if any:

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

G. 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:  School:  Subject Acronym:  Course Number:

Credit hours:  __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? ________________

If equivalent, will the newly-created course replace the existing course? □ yes □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ________________
Note: Cross-listed courses are equivalent.

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

This form was last updated on 12/13/13 and replaces all others.
Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $_____.  
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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.
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.

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
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- If you have questions, 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: RoxAnn H. Stalvey
Phone: 953-8153
Email: stalveyr@cofc.edu

Department or Program: Computer Science
School: School of Science and Math

Subject Acronym and Course Number: CSCI 480

Catalog Year in which changes will take effect: FALL 2014

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, E, F, G, H, I, J)
☒ Change Part of an Existing Course (complete parts C, D, E, F, G, H, I, J)
☐ Course Number (you must submit a course deactivation request for the old 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, H, I, J)
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C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

D. Request: The language “with a grade of C or better” is being added to pre-requisite Computer Science course(s) for this course. Rationale: In order to insure academic success for our students, it is important for students to have scored a C or better in any Computer Science prerequisite course. Internally, many in the department do not award D's in their courses in order to prevent students progressing to courses for which that course is a prerequisite. This practice is a disservice to any such student's GPA. Others in the Department permit D's but encourage such students to not proceed to future courses without first retaking and improving performance in the prerequisite course. Not all students follow this advice and are often unsuccessful in the follow-up course thus potentially delaying their graduation. By enforcing the C or better rule in the core prerequisite courses such as this one, the Department is insuring that our students are at least as strong as other students transferring major prerequisite courses into the College.

E. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well 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 change should not have an impact on other programs. The quality of students feeding into Computer Science courses will be improved and our retention rate will increase.

This form was last updated on 12/13/13 and replaces all others.

Page 1 of 4
F. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department: Computer Science	School: SSM	Subject Acronym: CSCI	Course Number: 480

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title: Principles of Computer Graphics

Course description (maximum 50 words, exactly as it appears in the catalog):
CSCI 480 Principles of Computer Graphics (3) An introduction to the fundamental principles of computer graphics. Among the topics covered are graphics hardware, 2-D graphics (including line and circle drawing, transformations, windows, viewports and clipping), 3-D perspective graphics, back-face removal, one or more hidden-surface graphics and simple light models. Lectures three hours per week.

Restrictions (pre-requisites, co-requisites, majors only, etc.): Prerequisites: CSCI 230 with a grade of C or better and MATH 120 or MATH 105.

Cross-listing, if any:

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

G. 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: School: Subject Acronym: Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study
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.):

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes □ no
If so, which course? ______________

If equivalent, will the newly-created course replace the existing course? □ yes □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ______________
Note: Cross-listed courses are equivalent.

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

This form was last updated on 12/13/13 and replaces all others.
Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $_____
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.

H. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

No costs are associated with this request.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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1. SLOs will not change for this course.

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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?

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

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J. CHECKLIST.

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