TO: Undergraduate Curriculum Committee

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

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

DATE: March 16, 2017

RE: Adding a course – CSE 1100 – Introduction to Programming Concepts

The School of Computing proposes the introduction of a new course called Introduction to Programming Concepts. No program is currently being affected by the creation of this course.
Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

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

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

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>CSE</th>
<th>COURSE NO.</th>
<th>1100</th>
<th>CREDIT HOURS</th>
<th>3</th>
<th>ACADEMIC YEAR TO BE ADDED TO THE FILE</th>
<th>Fall 2017</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>CLASS HOURS</th>
<th>LECTURE HOURS</th>
<th>LAB HOURS</th>
<th>CONTACT HOURS (CEU ONLY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45/semester</td>
<td>45/semester</td>
<td>0/semester</td>
<td>N/A</td>
</tr>
</tbody>
</table>

DEPARTMENT Computer Science and Software Engineering Program

SCHEDULE TYPE Lecture

(e.g., Biological Sciences)

□ COLLEGE OF AERONAUTICS – 23
□ NATHAN M. BISK COLLEGE OF BUSINESS – 24
□ COLLEGE OF ENGINEERING – 1
□ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25
□ COLLEGE OF SCIENCE – 26
□ EXTENDED STUDIES/NMB COLLEGE OF BUSINESS – 90
□ SCHOOL OF COMPUTING – 29
□ SCHOOL OF HUMAN-CENTERED DESIGN, INNOVATION & ART – 28

COMPUTER TITLE Intro Programming Concepts

Restricted to 25 characters, including spaces

CATHLOG TITLE Introduction to Programming Concepts

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

CATALOG DESCRIPTION OF COURSE Restricted to 350 characters, including spaces

Introduces fundamental concepts of computer programming in a high-level language. Covers primitive and collection data types, conditional and looping operators and function calls. Students will learn the use of standard software libraries for mathematical processing. (Requirement: CS majors may only use as Free Elective.)

This description has been approved by the catalog office Emjoy 3/17/2017

Catalog & Curriculum Manager Date

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

RESTRICTIONS □ Prerequisite □ Corequisite □ and and or

Course Number Course Number

□ Prerequisite □ Corequisite □ and and or

Course Number Course Number

□ Prerequisite □ Corequisite □ and and or

Course Number Course Number

□ Prerequisite □ Corequisite □ and and or

Course Number Course Number

□ and or

Course Number Course Number

□ and or

Course Number Course Number

□ and or

Course Number Course Number

□ and or

Course Number Course Number

ADDITIONAL RESTRICTION □ and or CS majors may only use as Free Elective.

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

GRADES TO BE ISSUED

□ A, B, C, D, F
□ A, B, C, D, F, CEU/Audit
□ CEU
□ S, U
□ P, F
□ Other

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

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

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

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

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

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

Originator 3/17/2017

Date

Department Head/Program Chair 3/17/2017

Date

Dean or Associate Dean 3/17/2017

Date

Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

**Chief Academic Officer

Date

CATALOG & CURRICULUM MANAGER

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

Catalog & Curriculum Manager Date

REGISTRAR’S USE ONLY

SCACOURSE SCADETL SCAPREQ SCAREAS ACATALOG

SCARRES CIP Code Operator Init. Date

Florida Institute of Technology • Office of the Registrar

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

RGR-297-816
CSE 1100 - Introduction to Programming Concepts (3 credits)

Course Information:

Catalog Description: Introduces fundamental concepts of computer programming in a high-level language. Covers primitive and collection data types, conditional and looping operators and function calls. Students will learn the use of standard software libraries for mathematical processing.

Textbooks:


No Prerequisite, CS Majors may only use as a Free Elective.

Expected Outcomes: By the end of the course, students will be familiar with programming concepts in a high-level language.

More specifically, they will be prepared to:

- Implement computer programs to solve real-world problems
- Employ basic arithmetic and text processing operators
- Demonstrate the correct use of relational operators and looping structures
- Employ modules from a standard software library to perform mathematical functions
- Demonstrate the use of text files for data input and output

Course Topics:

- Programming environments
- Relational operator and program control flow
- Function calls and return values
- Simple data structures: lists, sets and dictionaries
- Reading and writing text files

Grading Policy:

- Homework and Programming Assignments: 60%
- Midterm Exam: 20%
- Final Exam: 20%

Grading Scale:

A: 90 to 100, B: 80 to 89, C: 70 to 79, D: 60 to 69, F: below 60