

BS in Computer Science

Resolution of Recommendations arising from the 2010-2011 Assessment Report

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Based on its consideration of the annual assessment report of the BS in Computer Science for 2010, the SCIS Undergraduate Committee (UGC) made several recommendations concerning the BS in CS program. Resolution of these recommendations concludes the 2010 assessment cycle for the BS in Computer Science program, and are summarized following.

A. Recommendations originated by the Subject Area Coordinators

- **CGS 1920 - Change the course title**

UGC approved changing the title of this course to “Undergraduate Computing Seminar”. See the minutes of the March 20 UGC meeting:

<http://users.cis.fiu.edu/~prabakar/ugc/2011-12/l Tue Mar 20/agenda.txt>

This change must be formally approved by CEC and University Curriculum Committees.

- **CGS 3092 – Replace this requirement with a new *Global Learning* course**

A new 3-credit course CGS 3095 Technology in the Global Arena has been approved by the University Curriculum Committee for adoption into the BS in CS program requirements, replacing CGS 3092. It will be offered for the first time in Summer 2012. The new course includes coverage of all CGS 3092 topics and expands coverage of security issues, global impact issues, and professional roles and responsibilities. CGS 3095 has also been approved for the university Global Learning requirement.

Syllabus: http://www.cis.fiu.edu/programs/undergrad/courses/CGS_3095.pdf

FIU Bulletin: http://facultysenate.fiu.edu/bulletins/Bulletins11_12/b4/docs/p7.pdf

- **COP 3402 (now CDA 3103) - Re-state the course outcomes**

Revised outcomes have been proposed and are pending discussion for adoption in Fall 2012. UGC: <http://users.cis.fiu.edu/~prabakar/ugc/2011-12/e Tue Nov 8/agenda.txt>

- **COP 4610 - Prerequisites for Computer Engineering majors**

Revision of the syllabus of COP 4338 to a UNIX and C-language focus has been undertaken and is nearing completion following experimental offerings in Spring 2011 and Summer 2011. Since COP 4338 is both a prerequisite of COP 4610, and an elective course for CE majors, UGC proposed to recommend to the CE department to make COP 4338 a required course in the CE major, replacing their COP 4225 or COP 4226 requirement. Adoption of this change would obviate the prerequisite deficiency of CE majors, but is solely under purvey of the Computer Engineering department.

- COP 4540 (now COP 4710) - Add stored procedures to the syllabus
This recommendation has been implemented.
COP 4710 Syllabus: http://www.cis.fiu.edu/programs/undergrad/courses/COP_4710.pdf
- MAD 2104 and MAD 3512 - Enhancing evaluation
Please refer to Assessments Coordinator recommendation AC-01 below in respect of direct assessment measures. Administration of student and instructor assessment instruments is problematic since these courses are not delivered by SCIS.
- COP 3337 - Coverage of course outcomes
Consideration of the recommendation has been deferred pending conclusion of a review of the BS in CS programming sequence COP 2210, COP 3337, COP 3530. The review is on-going at the time of preparation of this summary.
http://users.cis.fiu.edu/~prabakar/ugc/2011-12/f_Thu_Nov_10/agenda.txt
- COP 3530 – Coverage of prerequisites in COP 3337
Consideration of the recommendation has been deferred pending conclusion of a review of the BS in CS programming sequence COP 2210, COP 3337, COP 3530. The review is on-going at the time of preparation of this summary.
http://users.cis.fiu.edu/~prabakar/ugc/2011-12/f_Thu_Nov_10/agenda.txt
- COP 4338 – Update the course outcomes
Revision of the COP 4338 syllabus is currently being undertaken by Drs. Liu and Rangaswami who have taught revised experimental versions of this course. Completion is anticipated by April 2012 for full operational implementation in the Summer 2012 semester.
http://users.cis.fiu.edu/~prabakar/ugc/2011-12/k_Thu_Feb_16/agenda.txt
http://users.cis.fiu.edu/~prabakar/ugc/2011-12/l_Tue_Mar_20/agenda.txt
- CEN 4010 – Implement a web-based programming prerequisite
The course CNT 4713 Net-Centric Computing has been approved as a required course in the BS in CS and is a co-requisite of CEN 4010. The syllabus includes web-based programming.
CNT 4713 syllabus: http://www.cis.fiu.edu/programs/undergrad/courses/CNT_4713.pdf
FIU Bulletin: http://facultysenate.fiu.edu/bulletins/Bulletins11_12/b4/docs/p7.pdf
- CEN 4911 – Review syllabus and framework
See AC-10 below.

B. Recommendations originated by the Assessments Coordinator

- AC-01: MAD 2104 and MAD 3512 In-class Evaluations
 - 1) MAD 3512: Course-embedded assessment via multiple choice quizzes has been undertaken in Spring 2011 and Fall 2011.
 - 2) MAD 2104: SCIS has developed a pool of multiple choice quiz questions for course-embedded assessment. One version of this quiz has been administered experimentally in the MAD 2104 successor course, COT 3420.
- AC-02: Raise the minimum acceptable course outcomes assessment rating to 4.00

This has been approved by the Undergraduate Program Director, and will be applied in subsequent evaluation of data from the *Value and Coverage of Course Outcomes*. See Table 1 of the assessment report.
- AC-03: COT 3420 syllabus review

This recommendation to form a committee to resolve COT 3420 issues has been accepted, but action deferred to Fall 2012, when Dr. Geoff Smith will have returned from sabbatical. Dr. Smith will chair the review committee (by Undergraduate Program Director).
- AC-04: Restate BS in CS Student Outcome a)

This recommendation has been accepted.
<http://www.cis.fiu.edu/programs/undergrad/csassessment/bsoutcomes.php>
- AC-05: Adoption of Learning Outcomes

Recommendation to refine existing high-level Course Outcomes into lower-level (more granular) Learning Outcomes has been accepted, and design substantially completed --
<http://users.cis.fiu.edu/~prabakar/ugc/2011-12/LearningOutcomes/>
Completion for all required and elective courses is anticipated for the start of Fall 2012.
- AC-06: COP 3530 course-embedded assessment

The anomalies in assessment of COP 3530 have been addressed by definition of Learning Outcomes, and creation of a pool of multiple-choice questions for course-embedded assessment in COP 3530. The first application is being done in Spring 2012.
- AC-07: Alumni Survey

The Alumni Survey will be continued. Other strategies to supplement the data obtained via the Alumni Survey are described under AC-08 following.

- AC-08: Graduate job-placement and attainment data
SCIS initiated social networking for its alumni and associates, via LinkedIn, in Fall 2011 – <http://www.linkedin.com/groups/FIU-School-Computing-Information-Sciences-4187416>
It is anticipated that job-placement and advancement data will be available through moderation of the LinkedIn group. Additionally, implementation of an employer survey is underway.
- AC-09: Course coordination
Consideration has been deferred until completion of the current assessment cycle.
- AC-10: Senior Project instructional content
A committee has been appointed by the SCIS Director to “study and restructure the Senior Project course”. Their assignment is on-going at the time of preparation of this summary.
Committee: http://users.cis.fiu.edu/~pestaina/CIS4911_Committee.pdf