

1. **Catalog Description for the Revised Bachelor of Arts- Computer Science**

Liberal Studies Electives: 3cr, MATH 216

48

with the following specifications:

Mathematics: 3cr, MATH 125 (1)

Liberal Studies Electives: 3cr, MATH 216

Major:

37

Required Courses:

COSC 105 Fundamentals of Computer Science	3cr
COSC 110 Problem Solving and Structured Programming	3cr
COSC 210 Object-Oriented and GUI Programming	3cr
COSC 220 Applied Computer Programming	4cr
COSC 300 Computer Organization and Assembly Language	3cr
COSC 310 Data Structures and Algorithms	3cr

2. Summary of Changes

~~Provide a side-by-side comparison of Current and Proposed programs (the changes are shown in italics)~~

Current Program

Bachelor of Arts - Computer Science

Liberal Studies: *As outlined in Liberal Studies* **50**

Proposed Program

Bachelor of Arts - Computer Science

Liberal Studies: *As outlined in Liberal Studies* **48**

Current Program

Proposed Program

Free Electives: 22-28
Total Degree Requirements: 120

Free Electives: 9-15 23-29
Total Degree Requirements: 120

(1) MATH 123 can be substituted by taking both MATH

(1) MATH 125 can be substituted by MATH 121.

talking both MATH 214 and 417 or both MATH 217

(3) COSC 316 cannot be counted for major credit if a student does an Information Assurance minor

(2) Select at least 6cr from the list of controlled electives.
Note: Only 4cr of COSC 493 may be counted toward

(4) Credit for both COSC 320 and 493 may be counted toward the degree, but only one will be counted

b) List of associated course changes

The following courses have changed course numbers:

COSC 415 Internet Architecture and Programming, revised, re-numbered and re-titled
as **COSC 365 Web Architecture and Application Development**
COSC 344 Productivity Tools and Fourth Generation Language re-numbered as **COSC 444**

The following courses have been deleted:

COSC 304 Interactive Internet Programming with Java
COSC 360 IBM Job Control Language
COSC 419 Software Development with Ada
COSC 450 Applied Numerical Methods

3. Rationale

Track is modified to reflect course deletions, re-numbering, and re-titling. Additional rational is provided in the individual proposals.

- a) MATH 123 is replaced by a new course, MATH 125 by the Department of Mathematics. The credit hours of MATH 125 are 3. These changes were approved by the Senate.
- b) The credit hours of MATH 216 are reduced from 4 to 3 by the Department of Mathematics and were approved by the Senate.
- c) Liberal studies credit hours are reduced from 50 to 48 because of reduced credit hours of MATH 125 and 216.

d) MATH 217/417 or MATH 214/417 option is removed because computer science majors require only one course on

probability and statistics; and MATH 216 Probability and Statistics for Natural Sciences, even after being reduced to three credits, still provides the statistics and approach we need. The content of MATH 216 is now closer to that of MATH 214 and 217; so we will leave it to the department chair's discretion as to accepting MATH 214 or MATH 217 in lieu of MATH 216.

4. Effects on the Number of Students.

It is expected that there will be no effects on the number of students in the program

Part IV. Periodic Assessment

The assessment of the success of the proposed changes described in this proposal will be performed as part of the Computer Science Department's overall curriculum assessment policies. This change is minor and will not affect the way current assessment is done.

Part V. Course Proposals

There are no new courses.

Part VI. Appendix A - Acknowledgment

Letter of Statement of Acknowledgment for the deletion of COSC 304 and the change in number for COSC 344 are provided

in individual proposals for each.