

**UNDERGRADUATE COUNCIL
Request for Change(s)**

Originating unit requesting change

Type of Change requested:

- | | | | | | |
|--------------------------|--------------------|--------------------------|------------------------|--------------------------|----------------------|
| <input type="checkbox"/> | Course number(s) | <input type="checkbox"/> | Course prerequisite(s) | <input type="checkbox"/> | Program description |
| <input type="checkbox"/> | Course title | <input type="checkbox"/> | Drop course(s) | <input type="checkbox"/> | Program requirements |
| <input type="checkbox"/> | Course description | <input type="checkbox"/> | Drop program(s) | | |

Semester and year change(s) take effect:

Appropriate computer abbreviation if
course title is more than 30 spaces:

Briefly summarize the change requested:

Programs Only

Program Name: _____

Current Code: _____ Proposed New Code (list 2): _____ or _____
(ex: INDE-BFA)

Can have second major: ____ Yes ____ No

Current 6-digit CIP Code: _____

Does the change require a new or change in CIP code? ____ Yes ____ No

If yes, what is the proposed 6-digit CIP code? _____

*for reference, please visit: <https://nces.ed.gov/ipeds/cipcode/resources.aspx?v=56>

Catalog copy

Present catalog copy (paste-up from catalog is acceptable).

Proposed change(s). (Include exact catalog copy as desired. Underline changes)

1. What is the justification for the change(s) requested?
2. If applicable, explain how the change(s) will affect the current program outcomes and assessment mechanisms.
3. **Faculty Resources:** How will the unit provide faculty support for this change and any other impact this change may have on other current departmental listings.

4. **Educational Resources:** Will this change require additional resources not currently available (e.g. space, equipment, library, other)? YES
If yes, list additional resources needed. NO

5. If this change affects other units of the University, include a statement signed by the chairperson(s) of the affected unit(s).

6. If cross-listed, provide evidence of approval by all curriculum committees appropriate to both the originating and cross-listed units.

Approval signature of chairperson of originating unit

CURRENT

Computer Science, BS Requirements

The program of study requires a minimum of 48 hours, on a 120-hour degree, consisting of:

Core Requirements

COSC 10403 Introduction to Programming 3

COSC 20203 Techniques in Programming 3

COSC 20803 Data Structures 3

COSC 30203 Computer System Fundamentals 3

COSC 30253 Computer Organization 3

COSC 30403 Programming Language Concepts 3

COSC 30603 Database Systems 3

COSC 40203 Operating Systems 3

COSC 40403 Analysis of Algorithms 3

COSC 40943 Software Engineering 3

COSC 40993 Senior Design Project 3

CITE 30103 Unix/Linux System Administration 3

12 hours from CITE 30363 or COSC electives at the 30000 level or above 12

Associated Requirements:

17 hours of mathematics

MATH 10524 Calculus I 4

MATH 20123 Discrete Mathematics I 3

MATH 30123 Discrete Mathematics II 3

MATH 30224 Linear Algebra 4

MATH 10043 Elementary Statistics 3

OR

MATH 30803 Probability 3

A two-semester science sequence in (including laboratories)

Plus two additional one-semester science courses

All science courses must be selected from biology, chemistry, environmental science, geology, physics or psychology (10514 and/or 10524 only). Courses for non-science majors may not be counted in this category.

A computer science major must have a minimum 2.2 GPA in all computer science coursework to graduate.

PROPOSED

Computer Science, BS Requirements

The program of study requires a minimum of 48 hours, on a 122-hour degree, consisting of:

Core Requirements:

COSC 10403 Introduction to Programming	3
COSC 20203 Techniques in Programming	3
COSC 20803 Data Structures	3
COSC 30203 Computer System Fundamentals	3
COSC 30253 Computer Organization	3
COSC 30403 Programming Language Concepts	3
COSC 30603 Database Systems	3
COSC 40203 Operating Systems	3
COSC 40403 Analysis of Algorithms	3
COSC 40943 Software Engineering	3
COSC 40993 Senior Design Project	3
CITE 30103 Unix/Linux System Administration	3
12 hours from CITE 30363 or COSC electives at the 30000 level or above	12

Associated Requirements:

17 hours of mathematics are required.

MATH 10524 Calculus I	4
MATH 20123 Discrete Mathematics I	3
MATH 30123 Discrete Mathematics II	3
MATH 30224 Linear Algebra	4
MATH 10043 Elementary Statistics	3

OR

MATH <u>30853 Statistics</u>	3
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12 - 16 hours of science are required.

<u>PHYS 10154 General Physics I with Laboratory</u>	<u>4</u>
<u>PHYS 10164 General Physics II with Laboratory</u>	<u>4</u>

OR

<u>PHYS 20474 Physics I with Laboratory: Mechanics</u>	<u>4</u>
<u>PHYS 20484 Physics II with Laboratory: Electromagnetism and Optics</u>	<u>4</u>

OR any 2 of 3 astronomy courses

<u>PHYS 10263 Cosmic Origins</u>	<u>3</u>
<u>PHYS 10273 Introductory Astronomy: Earth and Planets</u>	<u>3</u>
<u>PHYS 10293 Archeoastronomy</u>	<u>3</u>

Plus

<u>Two additional science courses</u>	<u>6 - 8</u>
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