APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College: Architecture, Art and Design Department: Building Construction Science Program

Contact Person: Saeed Rokooei Mail Stop: 9635 E-mail: sr1971@msstate.edu
Nature of Change: Modification Date Initiated: 11/17/22 Effective Date: Fall 2023
Current Degree Program Name: Bachelor of Science

Major: Building Construction Science Concentration: None

New Degree Program Name: Bachelor of Science

Major: Building Construction Science Concentration: None

Summary of Proposed Changes:
Replacing Environmental Building Systems II BCS 3723 with an elective course
Change the prerequisite of Mechanical and Electrical Systems BCS 3213 from Environmental Building Systems II BCS 3723 to Environmental Building Systems I BCS 2713

Approved:	Date:
Department Head	11/22/22
Chair, College or School Curriculum Committee	12-1-22
Dean of College or School	12-8-22
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	

Approved:	Date:
Michele [illegible]	11/22/22
Department Head	
J S Powers	12-1-22
Chair, College or School Curriculum Committee	
Lana Pierpoint-Kenz - Dir. Acd. Grad.	12/2/22
Dean of College or School	
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council(if applicable)	
Chair, Deans Council	

DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Building Construction Science Concentration: None	Degree: Bachelor of Science Major: Building Construction Science Concentration: None
The Building Construction Science degree program is a four year Bachelor of Science degree designed to prepare graduates for careers in construction or construction-related fields. The 124 credit hour program is an interdisciplinary curriculum that builds upon expertise existing within the School of Architecture and the College of Engineering and the College of Business as well as the building construction industry to provide a knowledge base in business, engineering, and construction sciences. The curriculum's foundational areas are based on a problem-and inquiry-based learning. Through the four year studio curriculum, students learn by applying skills and knowledge to complex construction problems that integrate multiple subject areas. The studio-based teaching focuses on the use of case studies and integration of multiple subject areas. This integration of a broader scope of architectural, engineering, construction, and business practices is a different approach than a traditional construction technology curriculum that separates subject areas into distinct courses. The Building Construction Science curriculum includes a general education foundation of mathematics, science, business, and construction specific courses: construction systems, building technology, structures, and materials and methods of construction and incorporates these and other areas such as estimating, scheduling, safety, project management, and construction law into the studio curriculum. Course development is built upon the strengths of the three colleges that are collaborating in the effort. Building Construction Science students collaborate with architecture, engineering, and interior design students as a regular part of their course work. The Building Construction Science program is accredited by the American Council for Construction Education (ACCE).	The Building Construction Science degree program is a four year Bachelor of Science degree designed to prepare graduates for careers in construction or construction-related fields. The 124 credit hour program is an interdisciplinary curriculum that builds upon expertise existing within the School of Architecture and the College of Engineering and the College of Business as well as the building construction industry to provide a knowledge base in business, engineering, and construction sciences. The curriculum's foundational areas are based on a problem-and inquiry-based learning. Through the four year studio curriculum, students learn by applying skills and knowledge to complex construction problems that integrate multiple subject areas. The studio-based teaching focuses on the use of case studies and integration of multiple subject areas. This integration of a broader scope of architectural, engineering, construction, and business practices is a different approach than a traditional construction technology curriculum that separates subject areas into distinct courses. The Building Construction Science curriculum includes a general education foundation of mathematics, science, business, and construction specific courses: construction systems, building technology, structures, and materials and methods of construction and incorporates these and other areas such as estimating, scheduling, safety, project management, and construction law into the studio curriculum. Course development is built upon the strengths of the three colleges that are collaborating in the effort. Building Construction Science students collaborate with architecture, engineering, and interior design students as a regular part of their course work. The Building Construction Science program is accredited by the American Council for Construction Education (ACCE).
"[Click here and type old concentration description]" NONE	"[Click here and type old concentration description]" NONE

CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition I EN 1103 or Expanded English Composition I EN 1104	3	English Composition I EN 1103 or Expanded English Composition I EN 1104	3

English Composition II EN 1113 or Accelerated Composition II EN 1173	3	English Composition II EN 1113 or Accelerated Composition II EN 1173	3
Fine Arts Architectural Appreciation ARC 1013	3	Fine Arts Architectural Appreciation ARC 1013	3
General Physics I PH 1113 General Physics II PH 1123 Environmental Building Systems I BCS 2713	3 3 *3*	General Physics I PH 1113 General Physics II PH 1123 Environmental Building Systems I BCS 2713	3 3 3
Calculus for Business and Life Sciences I MA 1613 Introduction to Statistics ST 2113	3 3	Calculus for Business and Life Sciences I MA 1613 Introduction to Statistics ST 2113	3 3
Humanities (Gen Ed): any Gen Ed course	6	Humanities (Gen Ed): any Gen Ed course	6
Principles of Macroeconomics EC 2113 Principles of Microeconomics EC 2123	3 3	Principles of Macroeconomics EC 2113 Principles of Microeconomics EC 2123	3 3
Free Electives	3	**Free Electives**	**6**
Surveying CE 2213 Virtual Design and Construction BCS 2313 *Environmental Building Systems II BCS 3723* Structures I BCS 3904 Structures II BCS 3914 Building Construction Studio A BCS 1116 Building Construction Studio B BCS 1126 Building Construction Studio 1 BCS 2116 Or Construction Internship/Co-op BCS 3006 Building Construction Studio 2 BCS 2226 Building Construction Studio 3 BCS 3116 Building Construction Studio 4 BCS 3126 Or Construction Internship/Co-op BCS 3006 Building Construction Studio 5 BCS 4116 Building Construction Studio 6 BCS 4126 Mechanical and Electrical Systems BCS 3213 High Performance Construction BCS 3323 Professional Communication and Practice BCS 4222 Principles of Financial Accounting ACC 2013 Principles of Managerial Accounting ACC 2023 The Legal Environment of Business BL 2413 Principles of Management MGT 3113	3 3 *3* 4 4 6 6 6 6 6 6 6 6 3 3 2 3 3 3 3	Surveying CE 2213 Virtual Design and Construction BCS 2313 Structures I BCS 3904 Structures II BCS 3914 Building Construction Studio A BCS 1116 Building Construction Studio B BCS 1126 Building Construction Studio 1 BCS 2116 Or Construction Internship/Co-op BCS 3006 Building Construction Studio 2 BCS 2226 Building Construction Studio 3 BCS 3116 Building Construction Studio 4 BCS 3126 Or Construction Internship/Co-op BCS 3006 Building Construction Studio 5 BCS 4116 Building Construction Studio 6 BCS 4126 Mechanical and Electrical Systems BCS 3213 High Performance Construction BCS 3323 Professional Communication and Practice BCS 4222 Principles of Financial Accounting ACC 2013 Principles of Managerial Accounting ACC 2023 The Legal Environment of Business BL 2413 Principles of Management MGT 3113	3 3 4 4 6 6 6 6 6 6 6 6 3 3 2 3 3 3 3
Concentration Courses		Concentration Courses	
Total Hours	124	Total Hours	124

Justification:
Replacing Environmental Building Systems II BCS 3723 with an elective course
Change the prerequisite of Mechanical and Electrical Systems BCS 3213 from Environmental Building Systems II BCS 3723 to Environmental Building Systems I BCS 2713

MISSISSIPPI STATE UNIVERSITY

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Building Construction Science Program
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Oct. 28, 2022

To: University Committee on Courses and Curricula

Re: BCS 3723 Environmental Building Systems II Removal

The Building Construction Science Curriculum Committee are in support of the proposal to remove BCS 3723 Environmental Building Systems II from the curriculum. The 3-credit hour replacement will be selected as an elective course. Also, the prerequisite of BCS 3213 Mechanical and Electrical Systems will change from BCS 3723 Environmental Building Systems II to BCS 3713 Environmental Building Systems I.

Name/Title	Committee Role	Signature
George Ford Professor	Voting Member	
Saeed Rokooei, Assistant Professor	Committee Chair, Voting Member	
Afshin Hatami Assistant Professor	Voting Member	
Lee Carson, Assistant Clinical Professor	Voting Member	
Mohsen Garshasby Assistant Professor	Voting Member	
Hamed Nabizadeh Rafsanjani Visiting Assistant Professor	Voting Member	

Please let the committee know if any questions or concerns.

Sincerely,

Saeed Rokooei
Assistant Professor
Building Construction Science Curriculum Committee Chair