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 CAAD **Department:** BCS

Contact Person: George Ford **Mail Stop:** 6396 **E-mail:** gdf53@msstate.edu

Nature of Change: Modification **Date Initiated:** Nov 18, 2024

Current Degree (BS, MS, etc.): BS

Current Major: Building Construction Science

Current Concentration(s): none

Current Campus(es): ☑ Starkville ☐ Meridian ☐ Distance ☐ Gulf Coast*

*Gulf Coast campus for Bagley College of Engineering only

New Degree (BS, MS, etc.): BS

Effective Date:

Semester	Year
Fall	2025

**Any new program or modification desiring a starting semester other than fall must include a justification

Proposed Major: Building Construction Science

Proposed Concentration(s): None

Proposed Campus(es)

☑ Starkville
☐ Meridian
☐ Distance
☐ Gulf Coast*

*Gulf Coast campus for Bagley College of Engineering only

Summary of Proposed Changes:

Replace 4 studio courses (6 cr hr each) with 8 lecture courses (3 cr hr each).

Approved:	Date:
Syed M. Ahmed Department Head	01/08/2025
Director of Academic Quality	1/8/2025
Alexis Gregory Chair, College or School Curriculum Committee	01/08/25
Dominic Lippillo Digitally signed by Dominic Lippillo Date: 2025.01.08 16:09:15 -06'00' Dean of College or School	1/08/25
Chair, University Committee on Courses and Curricula	
Chair, Graduate Council (if applicable)	
Chair, Deans Council	

FOR OIRE USE ONLY

- ☐ Substantive Change to SACSCOC
- ☐ Notification to SACSCOC
- ☒ No significant departure

OIRE Representative Initials _____

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: Building Construction Science Major: Bachelor of Science Concentration:	Degree: Building Construction Science Major: Bachelor of Science Concentration:
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 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 on the strengths of the three colleges 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 121-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 problem-and inquiry-based learning. 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. Course development is built on the strengths of the three colleges 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]"	"[Click here and type new concentration description]"

CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
English (Ex: EN 1103 English Comp I): EN 1103 English Composition I EN 1113 English Composition II	6	**English (Ex: EN 1103 English Comp I):** EN 1103 English Composition I EN 1104 English Composition II	6
Fine Arts (General Education): ARC 1013 Architectural Appreciation	3	**Fine Arts (General Education):** ARC 1013 Architectural Appreciation	3
Natural Sciences (2 labs required from Gen Ed): PH 1113 General Physics I w/lab PH-1123 General Physics II w/lab	6	**Natural Sciences** (2 labs required from Gen Ed): PH 1113 General Physics I w/lab PH-1123 General Physics II w/lab	6
Extra Science (if appropriate) *BCS 2713 Environ Bldg Systems I*	3	**Extra Science (if appropriate)**	n/a
Math (General Education): *MA1613 Calculus for Business* ST 2113 Introduction to Statistics	6	**Math (General Education):** ST 2113 Introduction to Statistics	3
Humanities (General Education): Humanities Elective-3hrs Humanities Elective-3hrs	6	**Humanities (General Education):** Humanities Elective-3hrs Humanities Elective-3hrs	6
Social/Behavioral Sciences (Gen Ed): EC 2113 Principles of Macroeconomics EC 2123 Principles of Microeconomics	6	**Social/Behavioral Sciences (Gen Ed):** EC 2113 Principles of Macroeconomics EC 2123 Principles of Microeconomics	6
Major Core Courses *BCS 1116 Building Construction Studio A* *BCS 1126 Building Construction Studio B* *BCS 2116 Building Construction Studio 1* *BCS 2226 Building Construction Studio 2* BCS 2313 Virtual Design and Construction BCS 3116 Building Construction Studio 3 BCS 3126 Building Construction Studio 4 BCS 3213 Mech & Electrical Systems BCS 3323 High Performance Construction BCS 3904 Structures I w/lab *BCS 3914 Structures II w/lab* BCS 4116 Building Construction Studio 5 BCS 4126 Building Construction Studio 6 *BCS 4222 Prof Communication & Practice* ACC 2013 Principles of Financial Accting ACC-2023 Principles of Manag Accting BL 2413 Legal Environment of Business CE 2213 Surveying MGT-3113 Prin of Manag. *General Electives-6 hrs*	88	**Major Core Courses** **BCS-1133 Construction Drafting** **BCS-1143 Intro to the Built Env** **BCS-1243 Construction Site Safety** **BCS-2123 Cons Materials and Methods** **BCS-2223 Const Qual and Codes** **BCS-2233 Construction Science Tech** BCS 2313 Virtual Design and Construction **BCS 2713 Env. Building Systems I** BCS 3116 Building Construction Studio 3 BCS 3126 Building Construction Studio 4 **BCS-3133 Const Estimating** BCS-3213 Mech & Electrical Systems **BCS-3223 Construction Finance** **BCS-3233 Cons Scheduling** BCS-3323 High Performance Construction BCS 3904 Structures I BCS 4116 Building Construction Studio 5 BCS 4126 Building Construction Studio 6 **BCS-4133 Construction Contracts** **BCS-4233 Project Management & Ldrship** **MA1613 Cal for Business or MA-1713 Cal I** ACC-2013 Principles of Financial Accting ACC-2023 Principles of Manage Accting BL-2413 Legal Environment of Business CE-2213 Surveying MGT-3113 Prin of Management	91
Concentration Courses		Concentration Courses	
Total Hours	124	Total Hours	121

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF ARCHITECTURE, ART & DESIGN
DEPARTMENT OF BUILDING CONSTRUCTION SCIENCE

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January 9, 2025

To: University Committee on Courses and Curricula

RE: Program Modification for Building Construction Science Program

The Building Construction Science Curriculum Committee is in support of the program modification to delete four (4) studio courses from the program and replace the studio with traditional lecture/lab courses. The modification also includes a reduction of the program total hours from 124 to 121.

Mahdi Ghafoori, Voting Member	Mahdi Ghafoori
Saeed Rokooei, Voting Member	
George Ford, Voting Member	
Mohsen Garshasby, Voting Member	Mgarshasby
Rizwan Farooqui, Voting Member	Rizwan Farooqui
Michele Herrman, Voting Member	
Afshin Hatami, Chair	Afshin Hatami

Please let me know if you have any questions or concerns.

Sincerely,

Dr. Afshin Hatami

Assistant Professor,

BCS Curriculum Committee Chair