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:** S|ARC

Contact Person: Karen Spence **Mail Stop:** 9633 **E-mail:** kcs409@msstate.edu

Nature of Change: Modification **Date Initiated:** 10/28/2024

Current Degree (BS, MS, etc.): Master of Science in Architecture

Current Major: M.S. in Architecture

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.): _____

Effective Date:

Semester	Year
Fall	2025

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

Proposed Major: _____

Proposed Concentration(s): 1. Advanced Visualization 2. Socially Engaged Design

Proposed Campus(es)

☑ Starkville
☐ Meridian
☐ Distance
☐ Gulf Coast*

*Gulf Coast campus for Bagley College of Engineering only

Summary of Proposed Changes:

Modification includes modifying the program description, modifying the required coursework, modifying the required hours for the thesis option and introducing a new required course, add two concentrations: Advanced Visualization & Soc. Engage Design .

Approved:	Date:
Department Head	31 Oct 2024
Director of Academic Quality	10/31/24
Alexis Gregory Chair, College or School Curriculum Committee	12-13-24
Dean of College or School	
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

GRADUATE DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing Graduate Degree. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Please include the course prefix, number, and title in both columns. Expand rows as needed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Master of Science Major: Architecture Concentrations:	Degree: Master of Science Major: Architecture Concentrations: **Advanced Visualization** and **Socially Engaged Design**
"[Click here and type old degree description]" <u>Degree Programs</u> (T = thesis; NT = non-thesis) School of Architecture Master of Science Major: Architecture (T; NT) School of Architecture *Caleb Crawford, Director* *Dr. Larry Barrow, Director of the Graduate Program* Giles Hall P.O. Box AQ Mississippi State, MS 39762 Telephone: 662-325-2202 Email: *spittman@caad.msstate.edu* Graduate study is offered in the College of Architecture, Art, and Design leading to the degree of Master of Science in Architecture. This program provides an extension and knowledge of skills in the areas of *design, planning, visualization, CADCAM, housing, sustainability, and construction/manufacturing processes*. This is a post-professional degree and does not lead to licensing in Architecture. For additional information, contact the Graduate Program Coordinator, College of Architecture, P.O. Box AQ, Mississippi State, MS 39762. Admission Criteria—Applicants must have a GPA of at least 3.00 and demonstrate competence in design, construction, or related academic work. This competence may be demonstrated through grades of B or better in design and computer science courses or through the submission of a portfolio. International students must have a TOEFL (Test of English as a Foreign Language) score of 600 PBT (250 CBT or 100 iBT) or an IELTS (International English Language Testing Systems) score of 7.5 or above and should submit GRE scores. Each applicant must submit an essay stating intent and aspirations for study. Program of Study—The M.S. degree may be earned via two study track options:	"[Click here and type new degree description]" <u>Degree Programs</u> (T = thesis; NT = non-thesis) School of Architecture Master of Science Major: Architecture (T; NT) School of Architecture **Karen Cordes Spence, Director** Giles Hall P.O. Box AQ Mississippi State, MS 39762 Telephone: 662-325-2202 Email: **kspence@caad.msstate.edu** Graduate study is offered in the College of Architecture, Art, and Design leading to the degree of Master of Science in Architecture. This program provides an extension and knowledge of skills in the areas of **advanced visualization and socially engaged design**. This is a post-professional degree and does not lead to licensing in Architecture. For additional information, contact the Graduate Program Coordinator, College of Architecture, P.O. Box AQ, Mississippi State, MS 39762. Admission Criteria—Applicants must have a GPA of at least 3.00 and demonstrate competence in design, construction, or related academic work. This competence may be demonstrated through grades of B or better in design and computer science courses or through the submission of a portfolio. International students must have a TOEFL (Test of English as a Foreign Language) score of 600 PBT (250 CBT or 100 iBT) or an IELTS (International English Language Testing Systems) score of 7.5 or above and should submit GRE scores. Each applicant must submit an essay stating intent and aspirations for study. Program of Study—The M.S. degree may be earned via two study track options: Option One – Thesis: Requires 32 credit hours (26 graduate level course hours and 8 credit hours of research/thesis), and a comprehensive examination.

Option One – Thesis: Requires 30 credit hours (24 graduate level course hours and 6 credit hours of research/thesis), and a comprehensive examination. Option Two – Non-Thesis: Requires 32 graduate level credit hours and a comprehensive examination. Research assistantships may be available for students in Option One – Thesis option.

The Master of Science degree in Architecture offers an interdisciplinary, research-oriented academic experience for students from various fields who wish to *use design visualization and information technology as a method of inquiry and problem solving*. The degree program is appropriate for the student who has demonstrated a high level of success and potential for further development beyond undergraduate studies. *An application should submit a portfolio of design construction, or related experience/work, preferably in digital form (CD, DVD, website, etc.).* The entering class may include students from various design fields including interior design, landscape architecture, product design, construction management, art, etc. Diversity is preferred in the student composition. Interviews via e-mail, phone or personal may be required at the discretion of the applicant review committee.

The Master of Science Degree in Architecture is not a professional degree; it does not lead to architectural licensing as does the school's five-year Bachelor of Architecture Degree. Rather, this program offers the student an opportunity for exploration and research of architecture or a related field and utilizes technology as a problem-solving tool.

The degree program educates leaders and produces new knowledge in architecture and related fields. The program emphasizes *process and product* design in an interdisciplinary, intellectual context*, and the mastery of emerging hardware and software is expected*. The student will be given the opportunity and means to develop individual research agendas, mutually aligning with the program and faculty research agendas, and to collaborate with faculty and student colleagues on projects undertaken by the college. *All students must purchase computers. In addition, students will have access to the college's Digital Research and Imaging Laboratory (DRIL), which includes high-end workstations and a video-editing suite.* Applied research is encouraged with related industries, architectural firms, and other research units in an effort to address pertinent problems in architecture and the built environment.

Provisional Admission—The applicant who has not fully met requirements stipulated by the University and

Option Two – Non-Thesis: Requires 32 graduate level credit hours and a comprehensive examination. Research assistantships may be available for students in Option One – Thesis option.

The Master of Science degree in Architecture offers an interdisciplinary, research-oriented academic experience for students from various fields who wish to **explore advanced visualization processes or socially engaged design**. The degree program is appropriate for the student who has demonstrated a high level of success and potential for further development beyond undergraduate studies. The entering class may include students from various design fields including interior design, landscape architecture, product design, construction management, art, etc. Diversity is preferred in the student composition. Interviews via e-mail, phone or personal may be required at the discretion of the applicant review committee.

The degree program educates leaders and produces new knowledge in architecture and related fields. The program emphasizes design in an interdisciplinary, intellectual context. The student will be given the opportunity and means to develop individual research agendas, mutually aligning with the program and faculty research agendas, and to collaborate with faculty and student colleagues on projects undertaken by the college. Applied research is encouraged with related industries, architectural firms, and other research units in an effort to address pertinent problems in architecture and the built environment.

Provisional Admission—The applicant who has not fully met requirements stipulated by the University and the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first **10** hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer credits nor unclassified graduate credits can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—A student must maintain a 3.00 GPA after admission to the program. A student with a GPA below 3.00 will continue study on a probationary basis and be given on semester to achieve a GPA of 3.00. Failure to do so will result in dismissal from the program.

<u>Option One</u> – Thesis: Requires **32** credit hours (26 graduate-level course hours with one-half at the 8000

the department for admission to graduate study may be granted admission as a degree-seeking graduate student with provisional status. The student must have as his or her initial objective advancement to regular status.

A provisional student must receive a 3.00 GPA on the first *9* hours of graduate level courses on the program of study taken at Mississippi State University in order to achieve regular status. Neither transfer credits nor unclassified graduate credits can be used to fulfill this requirement. If a 3.00 is not attained, the provisional student may be dismissed from graduate study. While in provisional status, a student is not eligible to hold a graduate assistantship.

Academic Performance—A student must maintain a 3.00 GPA after admission to the program. A student with a GPA below 3.00 will continue study on a probationary basis and be given on semester to achieve a GPA of 3.00. Failure to do so will result in dismissal from the program.

Option One – Thesis: Requires 30 credit hours (24 graduate-level course hours with one-half at the 8000 level and 6 credit hours of Research/Thesis), and a comprehensive examination.
Option Two – Non-Thesis: Requires 32 graduate-level credit hours with 15 hours at the 8000 level and a comprehensive examination.

The student in Option One – Thesis must pass a general exam for the thesis by the end of the first year. Failure to do so will result in a probationary status, and the student will not be allowed to register for *second year* classes until a pass is received from the committee. Failure to pass may ultimately result in dismissal from the program.

Completion Requirements:
Option One – Thesis: Requires completion of the thesis to the satisfaction of the Thesis Committee and a thesis defense.
Option Two – Non-Thesis: Requires 32 credit hours and a comprehensive examination.

Graduate Courses—Course prerequisites are noted in parentheses.
First Year – Fall Semester
ARC 6114 Professional Practice Strategies. 4 hours
ARC 6633 Architecture and Virtual Spaces. 1-9 hours
ARC 8114 Digital Design I. 4 hours
ARC 6152 Digital Design I Lab. 2 hours
First Year – Spring Semester
ARC 8224 Research and Writing. 4 hours
ARC 8444 Interactive Media (ARC 8990). 4 hours

level and 6 credit hours of Research/Thesis), and a comprehensive examination.
Option Two – Non-Thesis: Requires 32 graduate-level credit hours with 15 hours at the 8000 level and a comprehensive examination.

The student in Option One – Thesis must pass a general exam for the thesis by the end of the first year. Failure to do so will result in a probationary status, and the student will not be allowed to register for **subsequent** classes until a pass is received from the committee. Failure to pass may ultimately result in dismissal from the program.

Completion Requirements:
Option One – Thesis: Requires completion of the thesis to the satisfaction of the Thesis Committee and a thesis defense.
Option Two – Non-Thesis: Requires 32 credit hours and a comprehensive examination.

ARC 8124 Digital Design II *ARC 8463 Digital Storytelling. 3 hours* *ARC 6162 Digital Design Lab. 2 hours* *Second Year – Fall Semester* *ARC 8990 Computer-Aided-Design and Manufacturing (ARC 8113, 8123). 3 hours* *Optional Electives* *ARC 7000 Directed Individual Studies. (hours of credit vary)* *ARC 8000 Thesis Research/Thesis. 6 hours* *ARC 8990 Special Topics (hours of credit vary)*			
"[Click here and type old concentration description]" N/A		"[Click here and type new concentration description]" Advanced Visualization Socially Engaged Design	
CURRENT CURRICULUM OUTLINE	Required Hours	**PROPOSED CURRICULUM OUTLINE**	Required Hours
College Required Courses N/A		College Required Courses N/A	
Major Required Courses ARC 6114 Professional Practice Strategies. *ARC 6633 Architecture and Virtual Spaces.* *ARC 8114 Digital Design I.* *ARC 6152 Digital Design I Lab.* ARC 8224 Research and Writing. *ARC 8444 Interactive Media (ARC 8990).* *ARC 8124 Digital Design II* *ARC 8463 Digital Storytelling.* *ARC 6162 Digital Design Lab.* *ARC 8990 Computer-Aided-Design and Manufacturing (ARC 8113, 8123).* *Optional Electives* *ARC 7000 Directed Individual Studies. (hours of credit vary)* *ARC 8000 Thesis Research/Thesis.* *ARC 8990 Special Topics (hours of credit vary*	4 1-9 4 2 4 4 3 2 3 6	**Major Required Courses** **ARC 6113 Architecture Colloquium.** **ARC 6114 Professional Practice Strategies.** **ARC 8224 Research and Writing.**	**3** **4** **4**
Concentration 1. Courses N/A		**Concentration 1. Courses** **Advanced Visualization Concentration Required Courses:** **ARC 6633 Architecture and Virtual Spaces** **ARC 8114 Digital Design I** **ARC 6152 Digital Design I Laboratory** **ARC 8124 Digital Design II**	**3** **4** **2** **4**

		ARC 6162 Digital Design II Laboratory **Thesis Option – 6 hours of Coursework as Approved by Committee:** **ARC 9000 Thesis Research/ Thesis in Architecture** **Non-Thesis Option – Minimum 6 hours of Selected Coursework as Approved by Committee:** **ARC 8134 Digital Design III:** **ARC 8172 Digital Design III Laboratory** **ARC 8444 Interactive Media** **ARC 6990 Special Topics in Architecture** **ARC 7000 Directed Individual Study in Architecture**	**2** **6** **6**
Concentration 2. Courses		**Concentration 2. Courses** **Socially Engaged Design Concentration** **Required Courses:** **ARC 6613 CREATE Common Ground** **ARC 6813 Public Design Seminar I** **ARC 6823 Public Design Seminar II** **ARC 6853 Public Practice and Projects I** **ARC 6863 Public Practice and Projects II** **Thesis Option – 6 hours of Coursework as Approved by Committee:** **ARC 9000 Thesis Research/ Thesis in Architecture** **Non-Thesis Option – Minimum 6 hours of Selected Coursework as Approved by Committee:** **ARC 6833 Public Design Seminar III** **ARC 6873 Public Practice and Projects III** **ARC 6990 Special Topics in Architecture** **ARC 7000 Directed Individual Study in Architecture**	 **3** **3** **3** **3** **3** **6** **6**
Total Hours	30 T 32 NT	**Total Hours**	**32 T** **32 NT**

Program Modification Template (Complete instructions and definitions available in the Guide and Format)

1. Catalog Description and Curriculum Outline noting additions, deletions, and changes-insert template

   Catalog Description and Curriculum Outline is attached.

2. Justification for the Modifications to the Degree Program including how it meets the mission of the university.

   Modifications consist of changing the areas of knowledge of skills from design, planning, visualization, CADCAM, housing, sustainability, and construction/manufacturing processes to advanced visualization and socially engaged design. By narrowing the focus of the program to advanced visualization and socially engaged design, this graduate degree meets the mission of the university by offering a program that equips students to meet technological and social challenges of today's design industry. As a graduate program, it provides research skills and advanced academic study that develop well-informed individuals able to serve the needs of the region and beyond.

3. How do these changes meet the changing needs of the degree program/industry or make our program more competitive.

   Advanced studies beyond the baccalaureate meet the needs of the design fields as firms involved with architecture, interiors, and construction are employing more advanced technologies to simulate designs. Advanced visualization skills address this developing area. Similarly, socially engaged design provides study in communities and how designers are able to support them. This is particularly beneficial in helping designers who seek to make a positive impact in their cities and regions, acquiring design skills addressing social issues.

4. Describe the coherence and increasing rigor of the program.

   a. Undergraduate Programs: Provide evidence that 3000-level and 4000-level courses are designed to provide a coherent program of study that enhances the degree.

b. Graduate Programs: Provide evidence that the design of the program is not just a collection of graduate courses.

The program is grounded on three core courses: a colloquium to develop a solid perspective of contemporary thinking that influences the design field, a professional practice strategy course teaching qualitative and quantitative research skills, and a research and writing course that will provide guidance for problem identification and the development of a formal argument. These 11 hours of coursework accompany 21 hours of coursework addressing either digital design for the advanced visualization concentration or public design and practice coursework for the socially engaged design concentration. Both a thesis and non-thesis option is available in either concentration, providing up to six hours of coursework approved by committee to develop individual expertise.

5. Student Learning Outcomes (Generally 3-5 outcomes)

At the completion of the program, a student will be able to:

1. Recognize the critical issues in architecture over the past fifty years,
2. Discuss the contemporary processes of architecture production, including technologies and community engagement,
3. Engage in research-oriented experiences that further knowledge in architecture, and
4. Communicate questions and responses in an effective and compelling manner.

6. Assessment Procedures

Learning Outcome	Assessment description & Course
Recognize critical issues in architecture over past fifty years	ARC 6113: Architecture Colloquium Assessed through writing assignments on course discussions
Discuss contemporary processes of architecture production, including technologies and community engagement	ARC 6113: Architecture Colloquium Assessed through writing assignments on course discussions
Engage in research-oriented experiences that further knowledge in architecture	ARC 6114: Professional Practice Strategies Assessed through learning qualitative and quantitative research and applying this in assignments

Communicate questions and responses in an effective and compelling manner	ARC 8224: Research and Writing Assessed through research and writing assignments that develop and clarify core research questions

7. Proposed 4-letter Abbreviation (or current)

   ARCH

8. CIP Number (contact Director of Academic Quality for help in determining number)

   04.0201

   A program that prepares individuals for the independent professional practice of **architecture** and to conduct research in various aspects of the field. Includes instruction in architectural design, history, and theory; building structures and environmental systems; project and site planning; construction; professional responsibilities and standards; and related cultural, social, economic, and environmental issues. Examples: [**Architecture** (BArch, BA/BS)], [**Architecture** (MArch/MA/MS)], [**Architecture** (PhD)]

9. Attach Letters of Support

MISSISSIPPI STATE UNIVERSITY™

COLLEGE OF ARCHITECTURE, ART AND DESIGN
School of Architecture
P.O. Box AQ
240 Giles Hall | 899 Collegeview Street
Mississippi State, MS 39762
P. 662.325.2202
F. 662.325.8872
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December 3, 2024

Director Karen Spence
School of Architecture
P.O. Box AQ
Mississippi State, MS 39762

Director Spence,

The School of Architecture Curriculum Committee unanimously agrees and supports the program modification of the Master of Science. This includes the proposed technical changes for ARC 6114 and the new course ARC 6113. These changes include:

ARC 6114 Professional Practice Strategies: 4 hours.
Four hours lecture. Exploration of the students career goals relative to emerging technology impact and design/architectural practice trends
Proposed Modification:
Four hours lecture. Qualitative and quantitative explorations of research goals relative to emerging technologies and practice trends in the design fields.
And
ARC 6113 Architecture Colloquium: 3 hours.
(Prerequisite: graduate standing or consent of instructor). Three hours lecture. A review of contemporary major themes in the discipline of design throughout the world. Topical focus to be determined by the faculty member conducting the course.

The Committee feels these technical changes and additions will support the modification to the Master of Science. We are available to answer any questions you have regarding the program changes.

Sincerely,

Alexis Gregory
Alexis Gregory (Dec 6, 2024 09:34 CST)
Alexis Gregory
Chair, Curriculum Committee
Associate Professor

Jassen Callender
Jassen Callender (Dec 5, 2024 08:17 GMT+1)
Jassen Callender
Professor

Aaron White
Aaron White (Dec 5, 2024 08:57 CST)
Aaron White
Assistant Professor

John Ross (Dec 5, 2024 01:18 CST)
John Ross
Assistant Professor

Gokul Nair
Gokul Nair (Dec 5, 2024 09:59 EST)
Gokul Nair
Visiting Assistant Professor

Anna Kate Horn (Dec 5, 2024 22:54 GMT+1)
Anna Kate Horn
Student Representative

SARC CC Support Letter

Final Audit Report 2024-12-06

Created:	2024-12-03
By:	Alexis Gregory (ag1201@msstate.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAev258KaTAsbvhsdIo_4gFO9D8lmNRw1Y

"SARC CC Support Letter" History

Document created by Alexis Gregory (ag1201@msstate.edu)
2024-12-03 - 4:16:42 PM GMT

Document emailed to Jassen Callender (jsc162@msstate.edu) for signature
2024-12-03 - 4:18:47 PM GMT

Email viewed by Jassen Callender (jsc162@msstate.edu)
2024-12-05 - 7:17:32 AM GMT

Document e-signed by Jassen Callender (jsc162@msstate.edu)
Signature Date: 2024-12-05 - 7:17:59 AM GMT - Time Source: server

Document emailed to John Ross (jsr479@msstate.edu) for signature
2024-12-05 - 7:18:00 AM GMT

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2024-12-05 - 7:18:43 AM GMT

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2024-12-05 - 2:57:34 PM GMT

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2024-12-05 - 2:59:12 PM GMT

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2024-12-05 - 2:59:39 PM GMT

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2024-12-05 - 9:54:13 PM GMT

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2024-12-06 - 3:34:28 PM GMT

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Signature Date: 2024-12-06 - 3:34:40 PM GMT - Time Source: server

Agreement completed.
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