

School of

CONSTRUCTION AND DESIGN

MAJORS



- Architectural Engineering Technology BS
- Construction Management BS*
- Interior Design BS

* Available fully online


MINORS

- Architectural Engineering Technology Minor
- Construction Management Minor
- Interior Design Minor

CONTACT US

 601.266.4902  constructionanddesign@usm.edu

 usm.edu/construction-design

 [@usmartsandsciences](https://www.instagram.com/usmartsandsciences)





Post-secondary students in the State of Mississippi often choose to attend a Mississippi community college (MS CC) and earn an associate degree before transferring to The University of Southern Mississippi to complete their bachelor's degree. To make this transition as smooth as possible and to ensure no credits are lost, we have created this transfer guide. In most, but not all, cases, students may complete a bachelor's degree in what we refer to as a '2+2' format:

2 years at a MS CC for an associate degree, which includes general education coursework
 +
 2 years at USM to complete the bachelor's degree

Please use the key below to determine which courses you must, should, or could take at a Mississippi community college before transferring to Southern Miss.

KEY



| | |
|---|--|
|  MUST | Students who do not complete these requirements at a MS CC cannot complete their bachelor's degree in the 2+2 format. |
|  SHOULD | Students should complete these requirements at a MS CC in order to have the smoothest transition to Southern Miss. It may still be possible to complete a bachelor's degree in the 2+2 format without taking these courses, but it will be challenging. |
|  COULD | Students could complete these requirements at a MS CC if they desire. Not taking these courses prior to transferring will not affect a student's ability to complete their bachelor's degree in the 2+2 format. |
|  CALCULUS READINESS | Calculus is required on this degree plan. Students should arrive at Southern Miss ready to take Calculus I, which means they must have completed Trigonometry or have a Math ACT subscore ≥ 26 . Students may complete Calculus I prior to transferring if they desire. |



NOTE: *This document is intended as a guide; it does not guarantee graduation in the 2+2 format. Degree requirements are subject to change. Please consult the school of your desired major for up-to-date requirements.*

Additional majors are available from the other Southern Miss colleges.

College of Education & Human Sciences

Hattiesburg 601.266.4568
 Gulf Park 228.214.3340

College of Nursing & Health Professions

Hattiesburg 601.266.5445
 AskCNHP@usm.edu

College of Business & Economic Development

Hattiesburg 601.266.4659
 Gulf Park 228.214.3447
 business@usm.edu



ARCHITECTURAL ENGINEERING TECHNOLOGY



PROGRAM INFO

The architectural engineering technology (AET) program educates future architectural engineering technologists in producing and documenting design projects from schematics through construction. The program is designed to prepare its graduates for employment in architecturally-related firms, including architect's offices, design-build firms, engineering firms, governmental agencies, real estate development firms, planning offices, and materials suppliers and manufacturers.

Major courses of study include architectural design, architectural history, architectural working drawings, building materials, visualization courses, MEP systems, estimating, specifications, structural design, and building information management.

Approximately 20-30% of USM students who complete the Bachelor of Science in Architecture Engineering Technology continue their education at a NAAB accredited Master of Architecture level if they decide to pursue licensure as an architect.

CAREER OUTLOOK

According to the U.S. Bureau of Labor Statistics, employment of architectural and engineering managers, which includes AET majors, is projected to grow 6% from 2020 to 2030.

Students learn to use design software, conduct structural analysis, and understand building codes and regulations. Graduates work in a variety of settings, including architecture firms, engineering firms, construction companies, and government agencies.

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KNOWLEDGE & SKILLS

Students gain various technical and professional skills highly valued in the construction industry.

- Technical drawing
- Building and construction methods
- Structural analysis and design
- Communication
- Team building
- Project management
- Critical thinking
- Problem solving

OPPORTUNITIES



SCHOLARSHIPS

The School of Construction & Design, which houses the AET program, offers 26 school-specific scholarships. Students should apply through the "Golden Opportunities" GO System.



STUDY ABROAD

Opportunities for travel include: Chicago, New Orleans, DC, San Antonio, London, and Rome.



INTERNSHIPS

Students complete an internship before graduation, which is highly desired by future employers. Past students have completed paid internships with the following companies (and many more): M3A Architects, Woodward Design-Build, Varnado Construction Management, Hensel Phelps, Mike Rozier Construction, Yates Construction, Spring Engineering, and Landry, Lewis, and Germany Architects.

ARCHITECTURAL ENGINEERING TECHNOLOGY BS **2+2**

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Complete all requirements for a MS community college associate degree, including general education coursework, and...



- * **MUST** Select 1 Physics I course and 1 additional laboratory science pair from the list below. May duplicate general education coursework. Take the 3 major-specific courses on page two.
- fx **CALCULUS READINESS** Pass MAT 1323 Trigonometry (MAT 103 at Southern Miss) or have a Math ACT subscore ≥ 26 .
- 👍 **SHOULD** Take the other major-specific courses on page two and complete Calculus I at your Community College.
- 💡 **COULD** Take the additional major course on page two.

CHECKLIST

COURSES

Updated August 2023



Courses at Community College

Equivalent Courses at Southern Miss

| | |
|---|---|
| <p>* PHYSICS I (Select 1)</p> <p>PHY 2413 and PHY 2411 (or PHY 2414)</p> <p>PHY 2513 and PHY 2511 (or PHY 2514)</p> | <p>PHY 111/L General Physics I Lecture and Laboratory</p> <p>PHY 201/L General Physics I with Calculus Lecture and Lab</p> |
| <p>* LAB SCIENCE PAIR (Select 1)</p> <p>CHE 1213 and CHE 1211 (or CHE 1214)</p> <p>CHE 1223 and CHE 1221 (or CHE 1224)</p> <p>GLY 1113 and GLY 1111 (or GLY 1114)</p> <p>GLY 1123 and GLY 1121 (or GLY 1124)</p> <p>PHY 2423 and PHY 2421 (or PHY 2424)</p> <p>PHY 2523 and PHY 2521 (or PHY 2524)</p> | <p>CHE 106/L General Chemistry I Lecture and Laboratory</p> <p>CHE 107/L General Chemistry II Lecture and Laboratory</p> <p>GLY 101/L Physical Geology Lecture and Laboratory</p> <p>GLY 103/L Historical Geology Lecture and Laboratory</p> <p>PHY 112/L General Physics II Lecture and Laboratory</p> <p>PHY 202/L General Physics II with Calculus Lecture and Lab</p> |



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ARCHITECTURAL ENGINEERING TECHNOLOGY BS **2+2**

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Complete all requirements for a MS community college associate degree, including general education coursework, and...



- * **MUST** Select 1 Physics I course and 1 additional laboratory science pair from the list on page one. May duplicate general education coursework. Take the 3 major-specific courses below.
- fx **CALCULUS READINESS** Pass MAT 1323 Trigonometry (MAT 103 at Southern Miss) or have a Math ACT subscore ≥ 26 .
- 👍 **SHOULD** Take the other major-specific courses below and complete Calculus I at your Community College.
- 💡 **COULD** Take the additional major course below.

CHECKLIST

COURSES

Updated August 2023

| | Courses at Community College | Equivalent Courses at Southern Miss |
|--------------------------|---|--|
| <input type="checkbox"/> | * DDT 1313, ENT 1313, GRA 1113, or GRA 1143 | AEC 132 Digital Graphics I |
| <input type="checkbox"/> | * DDT 1213, ENT 1213, CON 1213, or CIT 1213 | AEC 204 Materials and Methods of Construction |
| <input type="checkbox"/> | * DDT 2253, EGR 2413 or EGR 2453 | AEC 270 Statics and Strengths of Materials |
| <input type="checkbox"/> | 👍 DDT 2823 | AEC 234 Digital Graphics II |
| <input type="checkbox"/> | 👍 DDT 2243, ENT 2243 or CON 2123 | AEC 254 Estimating I |
| <input type="checkbox"/> | fx MAT 1323 | MAT 103 Plane Trigonometry |
| <input type="checkbox"/> | 👍 MAT 1613 or MAT 1815 | MAT 167 Calculus I |
| <input type="checkbox"/> | 💡 CON 1113 | AEC 101 History of the Built Environment |



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CONSTRUCTION MANAGEMENT



PROGRAM INFO

A degree in construction management teaches students how to plan and manage the workflow, personnel, equipment, and processes required to construct a project. Emphasis is placed on completing projects safely, ethically, on time, and within budget. Faculty teach the current best practices and latest technology. Our graduates are in high demand in all sectors of the construction industry.

Students visit active job sites to experience the work environment they will enter upon graduation. Faculty lead our students in national competitions offered through professional organizations such as the Design-Build Institute of America, the Associated Schools of Construction, Associated Builders & Contractors, and Associated General Contractors.

CAREER OUTLOOK

Construction is one of the largest and most diversified industries in the world, accounting for approximately 10% of the country's gross national product.

Common careers include estimator, scheduler, project superintendent, project manager, controls manager, materials manager, or owner. Skilled professionals are indispensable in meeting the global needs for new residential, commercial, industrial, manufacturing, civil, and environmental projects.

KNOWLEDGE & SKILLS

Key courses include:

- Digital Graphics
- Building Information Modeling
- Estimating
- Planning and Scheduling
- Project Controls
- Construction Safety
- Construction Law
- Mechanical, Electrical, & Plumbing Systems
- Structural Design
- Construction Project Management

OPPORTUNITIES



INTERNSHIPS

All of our students complete a 300-hour internship with a host company in the construction industry. The internship is typically completed in the summer and often leads to a full-time job offer after graduation.



SCHOLARSHIPS

More than 20 program-specific scholarships are available. Students should apply through the "Golden Opportunities" GO System.

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CONSTRUCTION MANAGEMENT BS 2+2

usm.edu/admissions/apply

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Complete all requirements for a MS community college associate degree, including general education coursework, and...



- * **MUST** Select 1 Physics I course. May duplicate general education coursework. Select 1 Economics course below. Take the 2 major-specific courses on page two.
- 👍 **SHOULD** Take Trigonometry.
- 💡 **COULD** Take the additional major coursework on page two.

CHECKLIST

COURSES

Updated March 2024

| | Courses at Community College | Equivalent Courses at Southern Miss |
|--------------------------|--|---|
| <input type="checkbox"/> | <p>* PHYSICS I (Select 1)</p> <p>PHY 2413 and PHY 2411 (or PHY 2414)</p> <p>PHY 2513 and PHY 2511 (or PHY 2514)</p> | <p>PHY 111/L General Physics I Lecture and Laboratory</p> <p>PHY 201/L General Physics I with Calculus Lecture and Lab</p> |
| <input type="checkbox"/> | <p>* ECONOMICS (Select 1)</p> <p>ECO 1113</p> <p>ECO 2113</p> <p>ECO 2123</p> | <p>ECO 101 Basic Economics</p> <p>ECO 201 Principles of Macroeconomics</p> <p>ECO 202 Principles of Microeconomics</p> |
| <input type="checkbox"/> | <p>👍 TRIGONOMETRY</p> <p>MAT 1323</p> | <p>MAT 103 Plane Trigonometry</p> |



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CONSTRUCTION MANAGEMENT BS 2+2

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Complete all requirements for a MS community college associate degree, including general education coursework, and...



- * **MUST** Select 1 Physics I course. May duplicate general education coursework.
Select 1 Economics course on page one.
Take the 2 major-specific courses below.
- 👍 **SHOULD** Take Trigonometry.
- 💡 **COULD** Take the additional major coursework below.

CHECKLIST

COURSES

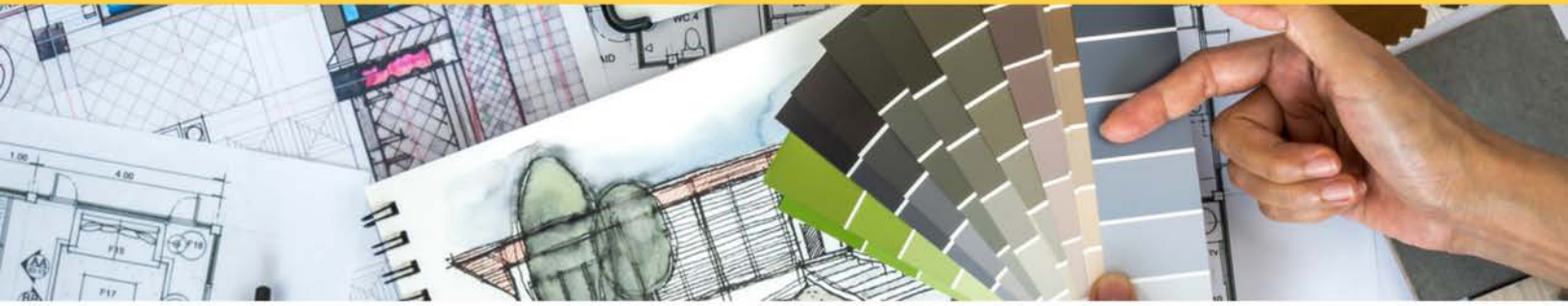
Updated March 2024

| | Courses at Community College | Equivalent Courses at Southern Miss |
|--------------------------|---|--|
| <input type="checkbox"/> | * DDT 1313, ENT 1313, GRA 1113, or GRA 1143 | AEC 132 Digital Graphics I |
| <input type="checkbox"/> | * DDT 1213, ENT 1213, CON 1213, or CIT 1213 | AEC 204 Materials and Methods of Construction |
| <input type="checkbox"/> | 💡 DDT 2823 | AEC 234 Digital Graphics II |
| <input type="checkbox"/> | 💡 DDT 2243, ENT 2243 or CON 2123 | AEC 254 Estimating I |
| <input type="checkbox"/> | 💡 DDT 2253, EGR 2413 or EGR 2453 | AEC 270 Statics and Strengths of Materials |
| <input type="checkbox"/> | 💡 DDT 1413, ENT 1413, or CIT 1413 | BCT 305 Surveying |



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INTERIOR DESIGN



PROGRAM INFO

The Interior Design program provides students with a variety of hands-on learning opportunities including designing real-world projects, traveling domestically and abroad, and completing professional internships. Faculty serve as mentors in the dedicated design studio providing a unique, personalized learning environment that mimics a real working design firm. Students have assisted the faculty on several University design projects including the Moffitt Health Clinic, Marine Research Center, and Greene Hall renovation.

STUDY ABROAD

There are approximately 5 academic study tours each year. For example, the 18-day intersession Italian Studies program immerses students in Italian culture, design, and architecture spanning a 2,000-year period. Site visits focus on the works of two highly influential designers, Andrea Palladio and Carlo Scarpa in Venice and the Veneto region of Italy.

In Florence, students experience ancient ruins, medieval villages, and exceptional sculptural and architectural masterpieces of the Renaissance with day trips to Siena and San Gimignano in the Tuscany region. Optional weekend excursions are offered to Rome and Pompeii.

CAREER OUTLOOK

The need for interior designers mirrors the increasing demand for new construction and renovation projects. Interior designers work in a variety of settings, including architecture firms, design studios, home furnishing companies, and as freelance designers. They work on a range of projects from residential spaces to commercial and institutional settings, such as hospitals, schools, and offices.

OPPORTUNITIES



SCHOLARSHIPS

There are half a dozen program-specific scholarships available. Students should apply through the "Golden Opportunities" GO System through the University Foundation.



INTERNSHIPS

All students complete an internship under the direct supervision of a licensed interior designer or architect. Students gain valuable experience working for residential, commercial, hospitality, and healthcare design firms throughout U.S. and are often hired into entry-level careers from these experiences.

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INTERIOR DESIGN BS **1+3**



NOTE This degree cannot be completed in a 2+2 format. Students wanting to begin at a MS community college may finish in a 1+3 year format instead.

*** MUST** Take the 4 Pre-Interior Design courses below. Earn at least a C with a 2.5 GPA for the 4 courses.

👍 SHOULD Fill the rest of your schedule with general education coursework and transfer after one year.

💡 COULD Select 1 Art History course.

CHECKLIST

COURSES

Updated March 2024

| |
|--------------------------|
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |

Courses at Community College

Equivalent Courses at Southern Miss

| | |
|--|---|
| * ART 2413 or FCS 2413 | ID 140 Interior Design I |
| * ART 1313 | ART 101 Drawing I |
| * ART 1433 | ART 111 Design I |
| * ART 1443 | ART 112 Design II |
| 💡 ART HISTORY (Select 1) ART 2713 ART 2723 | ART 332 History of Art I ART 334 History of Art II |



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