



Bachelor of Science in Construction Engineering

125 Hours

Valid for students in the 26-27 catalog year.

| Fall 17 Hours | | | FRESHMAN YEAR | | | Spring 16 Hours | | | Fall 17 Hours | | | SOPHOMORE YEAR | | | Spring 16 Hours | | |
|------------------|--|--------------------|-----------------------|---|---|--------------------|---|-------------------------------|---------------------|--|--|----------------|--|--|--------------------|--|--|
| | MATH 125 Calculus I [4] | MATH 126 PH 105 | MATH 125 | MATH 126 Calculus II [4] | AEM 250 AEM 264 GES 255 MATH 227 MATH 238 | MATH 126 | MATH 227 Calculus III [4] | AEM 311 | MATH 126 | MATH 238 Differential Equations [3] | | | | | | | |
| | Approved Science Elective [4] See note below | | MATH 125 | PH 105 Physics I w/CAL I [4] | PH 106 AEM 201 | PH 105 | PH 106 Physics II [4] | | | CH 101 Chemistry I [4] | | | | | | | |
| | HU/L/FA/WL Elective [3] | | UA 101 Legends [1] | | | | CE 261 Geomatics [3] | | | CE 366 Intro to Construction Engineering [3] | CE 414 CE 463 CE 418 CE 464 CE 461 CE 466 CE 462 CE 468 | | | | | | |
| | ENGR 101 The World of Engineering [1] | | | ENGR 104 Fundamentals of Engineering [3] | GES 255 | MATH 125 PH 105 | AEM 201 Statics [3] | AEM 250 AEM 264 AEM 311 | AEM 201 | CE 262 Civil Engineering Materials [3] | CE 310 CE 331 CE 340 CE 366 | | | | | | |
| | HI/SB Elective [3] | | MATH 112 | | | ENGR104 | | | | | | | | | | | |
| | EN 103 English Comp FC [3] | | MATH 100 or higher | EC 110 Microeconomics HI/SB [3] | | ENGR104 | GES 255 Engineering Statistics [3] | CE 366 | AEM 201 MATH 126 | AEM 250 Mechanics of Materials [3] | CE 331 CE 340 | | | | | | |

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|---|--|--|
| Approved Science Elective Any core curriculum Natural Science designated course except: BSC 108 BSC 109 CH 101 CH 104 CH 117 PH 101 PH 102 PH 105 PH 106 PH 115 PH 125 PH 126 | Built by Bama Core FC - 3 or 6 credit hours depending on high school GPA HI/SB - 9 credit hours with at least 3 in HI HU/L/FA/WL - 9 credit hours with at least 3 in L USGC - 3 credit hours; must be taken at UA W - 3 credit hours; must be taken at UA | Advising Notes Grade of C- or higher is required in each course that is a prereq to any course needed to meet degree requirements. Honors College participants refer to your DegreeWorks for Honors College requirements and course options. Maximum of 12 hours of 300/400 level courses can be transferred. Students are limited to a maximum of two attempts per course offered by the College, excluding withdrawals. |
| | | <i>Courses must carry the appropriate core designation at the time they are taken. Designations are not applied retroactively. Always check the course catalog for the current core class list.</i> |

| KEY | | |
|------------------------------|--------------------------------|-------------------------------|
| Prerequisites | Course XXX Title Credits | Downward Depend- encies |
| Prerequisites w/ Concurrency | | |

Use this flowchart to help plan your coursework, but always refer to the UA Undergraduate Catalog for official academic requirements. This flowchart does not override curriculum requirements.



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| Fall 16 Hours | | | JUNIOR YEAR | | | Spring 15 Hours | | | Fall 15 Hours | | | SENIOR YEAR | | | Spring 13 Hours | | |
|---------------------------------|--|------------------------------|-------------|---|--------------------|------------------------------|---|-----------------------------------|---|--|--------------------|-----------------------------------|--|--|--------------------|--|--|
| AEM 250 CE 262 | CE 331 Intro to Structural Engineering [3] | CE 462 | CE 262 | CE 310 Engineering Citizenship W/USGC [3] | Capstone Design | See Design Elective Notes | Design Elective [3] | Capstone Design | CE 366 | CE 464 Safety Engineering [3] | Capstone Design | <i>Course Offered Spring Only</i> | | | | | |
| CE 262 | CE 340 Geotechnical Engineering W [4] | CE 461 Capstone Design | CE 366 | CE 414 Information Systems [3] | Capstone Design | CE 366 | CE 461 Horizontal Construction [3] | | See General Elective Notes | General Elective [3] | | | | | | | |
| AEM 250 | | | | | | CE 340 | | <i>Course Offered Fall Only</i> | | | | | | | | | |
| CE 366 | CE 468 Construction Scheduling [3] | | CE 366 | CE 462 Vertical Construction [3] | Capstone Design | CE 366 | CE 418 Engineering Management [3] | | CE 310 CE 462 CE 340 CE 463 Design CE 414 | CE 404 Capstone Design [4] | | | | | | | |
| | | | CE 331 | | | | | <i>Course Offered Fall Only</i> | | | CE 464 CE 466 | | | | | | |
| <i>Course Offered Fall Only</i> | | | | | | | | <i>Course Offered Spring Only</i> | | | | | | | | | |
| AEM 201 MATH 126 | AEM 264 Dynamics [3] | | CE 366 | CE 463 Cost Estimating [3] | Capstone Design | CE 366 | CE 466 Lean/Sustainable Construction [3] | Capstone Design | | HU/L/FA/WL Elective [3] | | | | | | | |
| | | | | | | | | <i>Course Offered Fall Only</i> | | | | | | | | | |
| | Professional Practice Elective [3] | | | HU/L/FA/WL Elective [3] | | | HI/SB Elective [3] | | Strongly Encouraged To Take FE Exam | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

General Electives

Choose from CCEE, Engineering, Mathematics, Data Science, Natural Science or Business. See UA Catalog for more detailed information.

Professional Practice Elective

Choose from: LGS 200, EN 319, HY 309, COM 352, EN 380, and EN 382.

ConE Design Electives

Choose from CE 433, CE 434, CE 436, and CE 444.

Capstone Design Requirements

Pre-req: CE 310, CE 340, CE 414, CE 462, CE 463, and one Design Elective.

Prerequisites with concurrency: CE 464 and CE 466.

CE 404 must be taken at UA. No transfer credit accepted.

Beyond Graduation

Graduating in Construction Engineering places you at the intersection of engineering design and project execution. As a construction engineering graduate, you will apply engineering principles to plan, design, and deliver complex construction projects safely, efficiently, and sustainably. Your career paths may include construction engineering, field engineering, project engineering, heavy civil and building construction, construction methods development, and infrastructure delivery. Whether you work with contractors, engineering firms, public agencies, or technology-driven construction enterprises, you will play a critical role in transforming designs into reality and building the infrastructure and facilities that serve communities for generations.