

CONSTRUCTION MANAGEMENT ASSOCIATE OF APPLIED SCIENCE DEGREE

This degree will provide students with the foundation necessary to obtain employment in the construction industry, with skills in residential and commercial construction and project management. Students will learn the basics of home construction, including framing, roofing, siding, drywall, painting, and trim carpentry through hands-on instruction in our construction lab, completing a variety of projects. This technical training will be combined with classroom instruction in essential business management and project planning skills, including bookkeeping and accounting, business leadership and entrepreneurship, blueprint reading, estimating, scheduling, and other aspects of construction project management. Students will apply and demonstrate attainment of these skills through completion of a capstone project.

See our website at www.msbillings.edu/careers (<http://www.msbillings.edu/careers/>) for graduate data.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Utilize worksite safety practices.
- Select and utilize tools and materials to complete tasks in multiple phases of construction to industry performance standards.
- Use construction project documents to create project planning and management tools.
- Demonstrate effective written and oral communication with multiple project stakeholders.
- Employ project management tools and techniques to achieve successful completion of construction projects. \ \

Required Courses

| Code | Title | Credits |
|-------------|---------------------------------|---------|
| BGEN 105B | Introduction to Business | 3 |
| BGEN 110 | Applied Business Leadership | 3 |
| BMGT 222 | Princ of Project Management | 3 |
| BMGT 235 | Management | 3 |
| BMGT 281 | Risk Mgmt, Safety & Security | 3 |
| CAPP 103 | Quickbooks Fundamentals | 2 |
| CAPP 120 | Introduction to Computers | 3 |
| COMX 106 | Comm in a Dynamic Workplace | 3 |
| CSTN 120 | Carpentry Bscs & Rough-In Frmg | 4 |
| CSTN 142 | Int - Ext Finish Carpentry | 4 |
| CSTN 148 | Blueprint Codes and Est. | 3 |
| CSTN 160 | Constructn Cncpts & Bldg Lab | 3 |
| CSTN 161 | Constructn Cncpts & Bldg Lb II | 4 |
| CSTN 250 | Construction Estimating | 3 |
| CSTN 260 | Constructn Cncpts & Bldg Lb III | 3 |
| or CSTN 298 | Internship | |
| CSTN 271 | Construction Project Mgmnt | 3 |
| CSTN 280 | Const Proj Schedule & Control | 3 |
| CSTN 281 | Construction Project Mgmnt II | 3 |
| CSTN 299 | Capstone: Construction | 4 |

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|------------------------------|--------------------------------|-----------|
| M 114 | Extended Technical Mathematics | 3 |
| WRIT 121 | Intro to Technical Writing | 3 |
| Total Minimum Credits | | 66 |

Suggested Plan of Study

| Code | Title | Credits |
|------------------------|---------------------------------|-----------|
| First Semester | | |
| CAPP 120 | Introduction to Computers | 3 |
| CAPP 103 | Quickbooks Fundamentals | 2 |
| CSTN 120 | Carpentry Bscs & Rough-In Frmg | 4 |
| CSTN 148 | Blueprint Codes and Est. | 3 |
| CSTN 160 | Constructn Cncpts & Bldg Lab | 3 |
| M 114 | Extended Technical Mathematics | 3 |
| Total | | 18 |
| Second Semester | | |
| COMX 106 | Comm in a Dynamic Workplace | 3 |
| WRIT 121 | Intro to Technical Writing | 3 |
| CSTN 142 | Int - Ext Finish Carpentry | 4 |
| CSTN 250 | Construction Estimating | 3 |
| BGEN 105B | Introduction to Business | 3 |
| Total | | 16 |
| Third Semester | | |
| CSTN 271 | Construction Project Mgmnt | 3 |
| CSTN 161 | Constructn Cncpts & Bldg Lb II | 4 |
| BMGT 235 | Management | 3 |
| BGEN 110 | Applied Business Leadership | 3 |
| BMGT 281 | Risk Mgmt, Safety & Security | 3 |
| Total | | 16 |
| Fourth Semester | | |
| CSTN 260 | Constructn Cncpts & Bldg Lb III | 3 |
| or CSTN 298 | Internship | |
| CSTN 280 | Const Proj Schedule & Control | 3 |
| CSTN 281 | Construction Project Mgmnt II | 3 |
| CSTN 299 | Capstone: Construction | 4 |
| BMGT 222 | Princ of Project Management | 3 |
| Total | | 16 |