## BS IN CONSTRUCTION MANAGEMENT

Units required for Major. 105 (includes units required for Minor in Business Administration)<br>Total units required for BS: 134

## Program Description

The Sacramento State University Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional, a Constructor. The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the Constructor. A Constructor determines the methods to be used and directs the economical application of resources in the construction of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the Constructor. engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

Note: Students graduating with a BS in Construction Management will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: Students graduating with a BS in Construction Management consecutively earn a Minor in Business Administration.

## Program Requirements

| Code | Title | Units |
| :---: | :---: | :---: |
| Required Lower Division Courses (51 Units) |  |  |
| ACCY 1 | Accounting Fundamentals | 3 |
| ACCY 2 | Managerial Accounting ${ }^{1}$ | 3 |
| CM 9 | Construction Surveying and Layout | 3 |
| CM 10 | The Construction Industry | 1 |
| CM 15 | Fundamentals of Construction Management | 3 |
| CM 20 | Construction Materials and Processes | 3 |
| CM 21 | Construction Graphics | 3 |
| CM 22 | Construction Documents | 3 |
| CM 30 | Engineering Mechanics--Statics | 3 |
| CM 40 | Properties of Construction Materials | 3 |
| ECON 1A | Introduction to Macroeconomic Analysis ${ }^{1}$ | 3 |
| or ECON 1B | Introduction to Microeconomic Analysis |  |
| ENVS 10 | Introduction to Environmental Science ${ }^{1}$ | 3 |
| MATH 26A | Calculus I for the Social and Life Sciences ${ }^{1}$ | 3 |
| MGMT 10 | Introduction to Business Law | 3 |
| PHYS 5A | General Physics: Mechanics, Heat, Sound ${ }^{1}$ | 4 |


| PHYS 5B | General Physics: Light, Electricity and Magnetism, Modern Physics ${ }^{1}$ | 4 |
| :---: | :---: | :---: |
| STAT 1 | Introduction to Statistics ${ }^{1}$ | 3 |
| Computer Literacy and Competency (3 Units) ${ }^{2}$ |  |  |
| MIS 1 | Word Processing | 1 |
| MIS 2 | Spreadsheets | 1 |
| MIS 3 | Presentation Graphics | 1 |
| Required Upper Division Courses (45 Units) ${ }^{3}$ |  |  |
| CM 110 | Legal Aspects of Construction | 3 |
| CM 111 | Construction Labor Relations | 3 |
| CM 120 | Construction Operations and Methods Analysis | 3 |
| CM 121 | Fundamentals of Construction Estimating | 3 |
| CM 124 | Engineering Construction | 3 |
| CM 125 | Advanced Estimating and Bidding | 3 |
| CM 126 | Construction Project Management | 3 |
| CM 127 | Planning, Scheduling and Control | 3 |
| CM 129 | Senior Project | 3 |
| CM 130 | Structures I -- Design Principles and Structural Steel Design | 3 |
| CM 135 | Soils and Foundations | 3 |
| CM 136 | Principles of Mechanical and Electrical Engineering | 3 |
| CM 140 | Structures II -- Timber and Formwork Design | 3 |
| HROB 101 | The Management of Contemporary Organizations | 3 |
| MGMT 117 | Business, Ethics and Society ${ }^{1}$ | 3 |
| Electives (6 Units) |  |  |
| Select any 100 level BA course |  | 3 |
| Select one of the following: |  | 3 |
| FIN 101 | Business Finance |  |
| MKTG 101 | Principles Of Marketing |  |
| OPM 101 | Operations Management |  |

Total Units
1 Course also satisfies General Education (GE)/Graduation Requirement. For the degree, students must satisfy all the University's General Education requirements for Construction Management. Students should contact the program office for a complete list of these requirements. A second year foreign language course (2A or equivalent) may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for exact GE eligibility of these courses.
All majors and pre-majors shall demonstrate computer literacy and competency prior to taking 100-level construction management or business courses. This requirement is met by passing scores on examinations as administered by the College of Business Administration in each of the following areas:

- Basic understanding and manipulation skills for operating system, Email system, and browser (covered in MIS 1);
- Basic facility with spreadsheets using the College of Business Administration's standard spreadsheet package (covered in MIS 2);
- Word processing and presentation graphics (covered in MIS 3).

Upper division Construction Management courses are open only to students who have satisfactorily completed all required lower division preparation and have been admitted to the major.

## Notes:

- High school chemistry (one year), mechanical drawing (one year), and trigonometry (one-half year) also required. Students without this high school preparation must take the necessary courses in addition to those listed above.
- The recommended course sequence may change. Students should consult the Construction Management program for current information.

Business Administration lower and upper division courses apply both to the major and to a Business Administration minor. Students interested in pursuing a pre-MBA sequence should contact the Degree Program Center in the College of Business Administration.

## General Education Requirements



## Graduation Requirements



