Contents
Fast Facts Matrix ....................................................................................................................... 2
Program Facts MSCM.................................................................................................................. 3
MSCM Admissions Requirements.............................................................................................. 4
  International Students............................................................................................................. 5
Course Listing ............................................................................................................................ 5
  The following CORE courses are to be taken – 9 credit hours (3 required courses): ............. 5
  CM Electives – 27 credit hours (select 9 courses from the following list): ......................... 6
  MSCM Leveling (Foundation) Courses................................................................................. 9
## Fast Facts Matrix

This matrix will serve as a point of reference for the Academic Partnerships enrollment team to utilize when requiring program-specific details.

<table>
<thead>
<tr>
<th>Section</th>
<th>Topic</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marketing Launch</strong></td>
<td>Marketing Launch Date</td>
<td>November 5, 2012</td>
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<tr>
<td></td>
<td>URL</td>
<td><a href="http://LSUOnline.lsu.edu">http://LSUOnline.lsu.edu</a></td>
</tr>
<tr>
<td></td>
<td>Phone Number</td>
<td>(877) 670-4521</td>
</tr>
<tr>
<td><strong>Course</strong></td>
<td>Number of New Student Start Dates Per Year</td>
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</tr>
<tr>
<td></td>
<td>First Cohort Begins On</td>
<td>March 4, 2013</td>
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<tr>
<td></td>
<td>Course Length</td>
<td>7 Weeks (six weeks summer)</td>
</tr>
<tr>
<td></td>
<td>Number of Courses in Program</td>
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<tr>
<td></td>
<td>Hours to Completion</td>
<td>36</td>
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<td>Estimated Completion Time</td>
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<tr>
<td></td>
<td>Capstone Course</td>
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</tr>
<tr>
<td><strong>Fees</strong></td>
<td>Tuition for Program</td>
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</tr>
<tr>
<td></td>
<td>Tuition per Course</td>
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<tr>
<td></td>
<td>Tuition per Credit hour</td>
<td>$750</td>
</tr>
</tbody>
</table>
# Program Facts MSCM

The online Master of Science in Construction Management (MSCM) intended for the military, industry professional or for those interested in a career change who are unable to attend traditional lectures and have access to the Internet. It is a professional practice-orientated advanced degree that offers a unique blend of 36 credit hours of leadership, construction and business management courses. The degree is designed to develop leaders/managers for building projects with mastery in the best practices contained within sustainability, building information modeling, project delivery, and decision making. There are several strategic advantages for the student:

- Developed by global national academic leaders in construction education in partnership with industry.
- Online flexibility and convenience with ability to complete the program in two years or less.
• One of the rare online construction management Master's program offered by a university that is classified by the Carnegie Foundation as a doctoral-granting university with very high research activities (RU/VH).
• No onsite residency requirements.
• Access and guidance from LSU’s Career Services.
• Personalized support and access to a well-connected industry and alumni network.
• LSU CM faculty are trained and/or has a certification for online instruction.
• Each course has been individually peer reviewed on many levels to assure a productive outcome for the student learner.

The program is to be submitted for accreditation by Fall of 2015 through the American Council for Construction Education (ACCE)

### MSCM Admissions Requirements

1. Complete Online Application. To learn more, go to [http://lsuonline.lsu.edu](http://lsuonline.lsu.edu).
2. The application fee is $50 US for U.S. citizens and permanent residents and $70 US for all other applicants.
3. Submit resume and official sealed transcripts of all previous college coursework, official test scores, and other materials that come from third-party sources to:
   - Grad Online
   - 101 LSU Union Building
   - PO Box 25416
   - Baton Rouge, LA  70803
4. An earned Bachelor's degree (or equivalent) from an accredited college or university in construction management, engineering, or architecture. Graduates of curricula outside these program areas will be required to satisfy program prerequisites before graduation (see MSCM Leveling).
5. A Graduate Record Examination (GRE) score of 1000 or better for GRE test taken prior to July 31, 2011. A GRE score of 300 or better is required for students completing the exam after August 1, 2011. All applicants for admission to the Construction Management and Engineering Science Graduate Programs are required to present satisfactory scores on the aptitude portion (quantitative plus verbal sections) of the GRE before admission can be granted.
   
   **Exception:** The GRE requirement is waived for applicants only if the applicant has a CM, engineering, or architecture undergraduate degree from a US accredited program (i.e. ACCE, ABET, etc.) AND has more than 3 years of...
managerial construction experience. A resume must be submitted that details this experience along with contact information for verification purposes.

6 An undergraduate grade point average (GPA) of at least 3.0 (on a 4.0 scale). Conditional (probationary) acceptance can be granted with a 2.75 GPA; however, these students must maintain a GPA of 3.0 during the first two modules to gain full acceptance into the program. In addition, they must also satisfy the Graduate School requirements for satisfactory academic progress. If they cannot, they will be dropped from the program.

7 Applicants that do not meet the acceptable undergraduate minimum required GPA of 2.75 may request to have their application considered if the following conditions are met:
   - Have an overall undergraduate GPA of 2.5 or higher; AND
   - Holds a certification as either a Associate Constructor or a Professional Constructor through the American Institute of Constructors (AIC) [http://www.professionalconstructor.org/certification](http://www.professionalconstructor.org/certification)

International Students

All university requirements for international applicants must be met. Information on this can be found in the [University Level Program Guidelines for LSU Online](http://gradlsu.gs.lsu.edu), or at [http://gradlsu.gs.lsu.edu](http://gradlsu.gs.lsu.edu) under “Prospective Student Information” and “Graduate Bulletin”.

Course Listing

The following CORE courses are to be taken – 9 credit hours (3 required courses):

**Course Name:** Project Delivery  
**Description:** Advanced concepts of project delivery, including project delivery systems, associated contractual methodologies, roles and responsibility of parties, feasibility analysis, project documentation, effective project execution, risk management and mitigation, and innovative construction practices.  
**Course Number:** CM 7030  
**Duration:** 7 Weeks  
**Credit Hours:** 3
Prerequisites: None; however, one should possess a fundamental knowledge of construction project administration
Course Cost: $2,250*

Course Name: Decision Making Tools in Construction Management
Course Description: Reviewing decision-making techniques that can be used by construction managers to assist in making decisions under uncertainty; decision-making techniques include financial and decision theory techniques along with sensitivity analysis; examples drawn from the construction industry as well as engineering.
Course Number: CM 7150
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: None; however, one should possess a fundamental knowledge of construction project administration
Course Cost: $2,250*

Course Name: Research Methods in Construction Management
Description: Identification and formation of construction management research problems, design of a research process, research information resources, numerous research methods, data collection and analysis methods, and presentation and dissemination of research results and findings.
Course Number: CM 7010
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: Graduate Standing or Permission of Instructor
Course Cost: $2,250*

CM Electives – 27 credit hours (select 9 courses from the following list):

Course Name: Advanced Construction Productivity
Description: A comprehensive systems approach to construction productivity management and advanced improvement methods; work sampling, crew balance methods, process flow charts, improved project organization, project design, roles of the individual stakeholders, quantifying labor and equipment productivity, and job site productivity; change orders, over manning, stacking of trades, weather, safety and contemporary issues in construction productivity.
Course Number: CM 7110
Duration: 7 Weeks  
Credit Hours: 3  
Prerequisites: CM 4110 or consent of instructor  
Course Cost: $2,250*

Course Name: Advanced Construction Scheduling  
Description: Advanced techniques in schedule development and implementation for effective project management during the planning and construction phases of a project, including monitoring, updating, and controlling the project schedule using software applications.  
Course Number: CM 7111  
Duration: 6 Weeks (summer)  
Credit Hours: 3  
Prerequisites: None; however, one should possess a fundamental knowledge of construction scheduling, cost controls, and project administration before taking this course.  
Course Cost: $2,250*

Course Name: Concrete Materials in Construction  
Description: Portland cement concrete materials as it applies to the construction of pavements and structures. It provides a complete overview of the mix proportioning process. It emphasizes fresh and hardened characteristics of concrete as well as durability parameters important for longevity.  
Course Number: CM 7214  
Duration: 7 Weeks  
Credit Hours: 3  
Prerequisites: Graduate Standing or Permission of Instructor  
Course Cost: $2,250*

Course Name: Construction Dispute Resolution  
Description: Recognizing the origins of construction disputes, way to avoid disputes through quality control, communications, and negotiation, and the alternate dispute resolution methods available. Course Number: CM 7211  
Duration: 6 Weeks (summer)  
Credit Hours: 3  
Prerequisites: None; however, one should possess a fundamental knowledge of construction project administration before taking this course.  
Course Cost: $2,250*

Course Name: Soils in Construction
Description: An in-depth understanding of geotechnical principles as it applies to soil construction activities.
Course Number: CM 7213
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: Consent of instructor.
Course Cost: $2,250*

Course Name: Building Information Modeling for Construction Management
Description: Concepts related to the implementation of BIM in construction projects from the perspective of the general contractor; topics include applications of BIM for visualization, marketing, quantity take-off, scheduling, coordination, and facilities management.
Course Number: 7220
Duration: 7 Weeks
Prerequisites: None; however, one should possess a fundamental knowledge of construction scheduling, cost controls, and project administration before taking this course.
Course Cost: $2,250*

Course Name: Lean Construction
Description: Production management-based approach to improve the Architecture/Engineering/Construction (AEC) process and product; lean process foundations, management, measurement, tools/techniques, and practices.
Course Number: CM 7230
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: None; however, one should possess a fundamental knowledge of construction materials, methods and estimating before taking this course.
Course Cost: $2,250*

Course Name: Natural Hazard Resistant Construction
Description: Materials, construction techniques and code requirements used in the construction industry to make buildings resistant to natural hazards, including wind, flood, hurricanes and other hazards; emphasis on construction practices for residential buildings that are sustainable, long-term solutions to our hazard-filled environment.
Course Number: CM 7250
Duration: 7 Weeks
Credit Hours: 3
**Prerequisites:** None; however, one should possess a fundamental knowledge of construction materials, methods and equipment and structural technology before taking this course.

**Course Cost:** $2,250*

**Course Name:** Advanced Sustainable Construction

**Description:** Sustainable construction. Emphasis on Green technologies as it applies to construction projects. LEED, NAHB, Green guidelines, Green roads, Green Lites, etc.

**Course Number:** CM 7302

**Duration:** 7 Weeks

**Credit Hours:** 3

**Prerequisites:** Permission of instructor, Continuation of CM 4302.

**Course Cost:** $2,250*

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**MSCM Leveling (Foundation) Courses**

The following courses are required for those students that do not have an earned Bachelor's degree (or equivalent) from an accredited college or university in construction management, engineering, or architecture. These are foundational courses that provide basic construction knowledge. The construction industry expects all students with any type of CM degree to possess this formal education. **The courses are not prerequisites to any of the MSCM courses but must be completed to earn the MSCM degree.** Students will be notified if they are required to take the leveling courses and will automatically be co-enrolled in the Post Baccalaureate Certificate (PBC) in CM program. This PBC program contains all required leveling (foundation) courses. It also provides the student with the opportunity to receive their PBC in CM during graduation ceremonies.

The following courses are to be taken in sequence:

**Course Name:** Construction Materials, Methods, and Equipment

**Description:** Credit will not be given for this course and CM 2101. Intended for post-baccalaureate leveling for non-CM majors. Principle materials and methods used in building construction, emphasizing common construction systems such as light wood frames, masonry bearing walls, steel frames, and reinforced concrete as well as project planning, work methods, materials, equipment, and sustainability.
Course Name: Construction Estimating
Description: Credit will not be given for this course and CM 3111. Intended for post-baccalaureate leveling for non-CM majors. Fundamentals of estimating including document review, quantity survey, material, equipment, and labor pricing, and bid package preparation for construction projects.

Course Number: CM 3110
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: None. This is the second course in a three course sequence. Students should take this course after CM 2100.
Course Cost: $2,250* if not enrolled in the Post-Baccalaureate Certificate CM Program**

Course Name: Construction Scheduling and Cost Control
Description: Credit will not be given for this course and CM 4101. Intended for post-baccalaureate leveling for non-CM majors. Fundamentals of planning and scheduling including network-based schedules, resource scheduling, probabilistic scheduling, and computer applications. Project control emphasis on goals, flow of information, time and cost control, and change management.

Course Number: CM 4100
Duration: 7 Weeks
Credit Hours: 3
Prerequisites: None. This is the third course in a three course sequence. Students should take CM 2100 then 3110 as these courses provide foundational knowledge for this course.
Course Cost: $2,250* if not enrolled in the Post-Baccalaureate Certificate CM Program**

The following can be taken when they are offered and in any order:

Course Name: Structural Principles and Practices
Description: Credit will not be given for this course and CM 2501. Intended for post-baccalaureate leveling for non-CM majors. Statics and strengths of materials; design of ordinary timber, steel, and reinforced concrete for construction applications.

Course Number: CM 2500
Duration: 7 Weeks  
Credit Hours: 3  
Prerequisites: None; however, it would be beneficial to complete CM 2101 before taking this course.  
Course Cost: $2,250* if not enrolled in the Post-Baccalaureate Certificate CM Program**

Course Name: Mechanical and Electrical Systems  
Description: Credit will not be given for this course and CM 3201. Intended for post-baccalaureate leveling for non-CM majors. For residential and commercial buildings; design and construction of building MEP systems; emphasis on basic terminology, equipment and installation procedures, management of the complete MEP process, code compliance, and quality control issues.  
Course Number: CM 3200  
Duration: 7 Weeks  
Credit Hours: 3  
Prerequisites: None  
Course Cost: $2,250* if not enrolled in the Post-Baccalaureate Certificate CM Program**

Course Name: Construction Contracting  
Description: Credit will not be given for this course and CM 4211. Intended for post-baccalaureate leveling for non-CM majors. Principles and theory of construction company ownership and organization, the estimate and bid process, construction contracts, bonds, insurance, business methods and plans, management, administration, labor law and relations, safety, and avoidance of claims.  
Course Number: CM 4210  
Duration: 7 Weeks  
Credit Hours: 3  
Prerequisites: None  
Course Cost: $2,250* if not enrolled in the Post-Baccalaureate Certificate CM Program**

* Spring 2014 tuition. University reserves the right to modify prices at any time;  
** Post-Baccalaureate Certificate (PBC) in CM was approved by the LSU Board of Regents and costs $278 per credit hour. They may modify tuition and/or fees at any time without advance notice.
Scheduled Course Offerings (dependent on calendar year):

<table>
<thead>
<tr>
<th>Financial Term</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 1</th>
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<tr>
<td>Module</td>
<td>2D</td>
<td>2L*</td>
<td>3D</td>
<td>1D*</td>
<td>1L</td>
<td>1P*</td>
<td>2D</td>
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<td>3D</td>
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<td>Summer</td>
<td>Fall</td>
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<td>Summer</td>
<td>Fall</td>
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<td>Summer</td>
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<td>MSCM ONLINE</td>
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<td>Required</td>
<td>CM 7010</td>
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<td>CM 7110</td>
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<td>CM Electives</td>
<td>CM 7220</td>
<td>CM 7111</td>
<td>CM 7230</td>
<td>CM 7250</td>
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<td>CM 7216</td>
<td>CM 7111</td>
<td>CM 7150</td>
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<td>PBC in CM Online and Leveling Courses</td>
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<td>CM 2100</td>
<td>CM 3110</td>
<td>CM 4100</td>
<td>CM 2100</td>
<td>CM 3110</td>
<td>CM 4100</td>
<td>CM 2100</td>
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