

# ENGINEERING MANAGEMENT (EM)

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Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, refer to the Schedule of Classes ([https://csprd.louisville.edu/psp/ps\\_class/EMPLOYEE/PSFT\\_CS/c/COMMUNITY\\_ACCESS.CLASS\\_SEARCH./x/?state=62dab551a0d600a5e8237359c50704e59007&duo\\_code=sjUx20STj21bIWVEuQ3Z1YRjHmfxpqoV](https://csprd.louisville.edu/psp/ps_class/EMPLOYEE/PSFT_CS/c/COMMUNITY_ACCESS.CLASS_SEARCH./x/?state=62dab551a0d600a5e8237359c50704e59007&duo_code=sjUx20STj21bIWVEuQ3Z1YRjHmfxpqoV)).

500-level courses generally are included in both the undergraduate- and graduate-level course listings; however, specific course/section offerings may vary between semesters. Students are responsible for ensuring that they enroll in courses that are applicable to their particular academic programs.

## Course Fees

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (<https://louisville.edu/bursar/tuitionfee/university-fees/>).

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### EM 525. Project Management 3 Units

**Term Typically Offered:** Fall, Spring, Summer

**Prerequisite(s):** Admission in ISE or EM program or instructor permission.

**Description:** Use of CPM, PERT, precedence diagramming, resource allocation heuristics, and other techniques for planning, managing, and controlling engineering projects involving research and development, production, maintenance, and construction. Computer procedures and codes for analyzing complex project networks will be covered.

**Note:** Cross-listed with ISE 525.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### EM 560. Construction Management 3 Units

**Prerequisite(s):** Admission into the Engineering Management program or instructor permission.

**Description:** An investigation of the engineer's role in the construction process. Study of the many variables influencing the project and associated methods of managing variables. Includes a practical demonstration of student's understanding schedule and cost estimate for a project of the student's choosing.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### EM 561. Engineering Statistics I 3 Units

**Prerequisite(s):** Admission into the Engineering Management program or instructor permission.

**Description:** . Study of the laws of probability, discrete and continuous probability distributions, point and interval estimation, tests of hypothesis, simple linear regression, and the single factor analysis of variance.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### EM 582. Management of Human Systems 3 Units

**Prerequisite(s):** Admission into the Engineering Management program or instructor permission.

**Description:** Computer-aided, quantitative application of human performance capabilities and limitations to the planning, design, development, and evaluation of complex human-machine/industrial systems.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)