

Graduate Certificate in Foundations of Engineering Management

The Graduate Certificate in Engineering Management is a 12 credit graduate-level certificate designed to provide content and skills for the professionally minded student. This graduate certificate serves as an introduction to the Engineering Management degree by offering a curriculum in management and technical systems with an emphasis on organizing and managing resources to successfully lead engineering or technical personnel and projects. This program is for individuals who have a minimum of 2 years professional engineering management experience.

Admission to Graduate Studies

An applicant seeking to pursue graduate study may be admitted as either a degree-seeking or non-degree seeking student. Policies and procedures of Graduate Studies govern the process of Graduate admission. These may be found in the Graduate Studies (<http://catalog.ku.edu/graduate-studies/>) section of the online catalog.

For more information on admission to a graduate certificate program at KU, see the policy on Admission to Graduate Study (<http://policy.ku.edu/graduate-studies/admission-to-graduate-study/>). Applications may be submitted at <http://graduate.ku.edu/ku-graduate-application/> (<http://graduate.ku.edu/ku-graduate-application/>).

The Graduate Certificate in Engineering Management requires the completion of three core courses and one elective for a total of 12 credit hours.

Foundations of Engineering Management (12 credits)

| Code | Title | Hours |
|---------------------------------------------------------------------------------|-------------------------------------------------------------|-------|
| EMGT 810 | Applications of Quantitative Analysis in Decision Making | 3 |
| EMGT 820 | Developing the Engineering Manager | 3 |
| EMGT 821 | Strategic Analysis of Technology Projects | 3 |
| Select one of the following electives or other departmentally approved courses. | | |
| EMGT 800 | Special Topics in Engineering Management | |
| EMGT 801 | Management Theory and Practice for Engineering Managers | |
| EMGT 802 | Statistical Analysis and Prediction of Engineering Systems | |
| EMGT 803 | Technological Forecasting and Assessment | |
| EMGT 804 | Business Development and Marketing of Professional Services | |
| EMGT 805 | Management of Innovation | |
| EMGT 807 | Labor and Employee Relations for the Engineering Manager | |
| EMGT 808 | Quality Management | |
| EMGT 811 | Engineering Systems Simulation | |
| EMGT 812 | Law and the Design Professional | |

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| EMGT 814 | Leadership Techniques and Methods for the Engineering Manager |
| EMGT 815 | Business Relationships and Selling Skills |
| EMGT 824 | Product Marketing for Engineering Managers |
| EMGT 830 | Case Studies in Engineering Management |
| EMGT 835 | Field Project (M.S.) |
| EMGT 840 | Systems Approach to Engineering |
| EMGT 850 | Environmental Issues for Engineering Managers |
| EMGT 860 | Special Problems in Engineering Management |
| EMGT 862 | Manufacturing Systems Integration |
| EMGT 867 | Advanced Operations Management |