

John A. Logan College
Construction Management Technology
A.A.S. – Associate in Applied Science

First Semester		Fall	
CMG	100	Construction Orientation	1
CMG	104	Building Layout	4
CMG	110	Wood Frame Construction	4
<i>ENG</i>	<i>113</i>	<i>Professional Technical Writing</i>	<i>3</i>
<i>MAT</i>	<i>113</i>	<i>Intro to Contemporary Math</i>	<i>3</i>
Total			<u>16</u>

Second Semester		Spring	
CIS	101	Introduction to Computers*	3
CMG	105	Estimating Techniques	3
CMG	107	Construction Document Interp	3
CMG	108	Construction Materials	4
<i>PSY</i>	<i>132</i>	<i>General Psychology</i>	<i>3</i>
		<i>Business Elective**</i>	<i>3</i>
Total			<u>19</u>

Third Semester		Fall	
CMG	208	Processes in Estimating	3
CMG	211	Commercial Construction	3
CMG	220	Construction Scheduling	3
<i>ENG</i>	<i>102</i>	<i>-OR- Literature Elective</i>	<i>3</i>
<i>PHY</i>	<i>121</i>	<i>Technical Physics</i>	<i>3</i>
		<i>Business Elective**</i>	<i>3</i>
Total			<u>18</u>

Fourth Semester		Spring	
CMG	207	Construction Management	3
CMG	209	Environmental Systems	3
CMG	210	Building Renovations	3
CMG	212	Construction Administration	2
CMG	226	Statics for Structures	3
<i>SPE</i>	<i>115</i>	<i>-OR- SPE 116</i>	<i>3</i>
Total			<u>17</u>

*Substitute CIS 207 for best transfer.

**Select ECO 202 for transfer as Social Science.

The above plan is based on a cumulative transfer gpa of 2.25/4.0 or higher and Capstone eligibility. For more information, see <http://registrar.siu.edu/eval/capstone.htm>.

For more information, contact a program representative at (618) 453-7281 or visit <http://www.siu.edu/~isat/>.

Southern Illinois University-Carbondale
Technical Resource Management
B.S. – Bachelor of Science

First Semester		Fall	
TRM	316	App of Technical Information	3
TRM	364	Work Center Management	3
UCC†		Science, Group II	3
		Approved Elective‡	3
		Approved Elective‡	3
Total			<u>15</u>

Second Semester		Spring	
TRM	332	Labor-Management Relations	3
TRM	383	Data Interpretation	3
UCC†		Fine Arts	3
		Approved Elective‡	3
		Approved Elective‡	3
Total			<u>15</u>

Third Semester		Fall	
TRM	362	Legal Aspects of Technical Mgmt	3
TRM	464	Managing for Quality	3
UCC†		Humanities	3
		Approved Elective‡	3
		Elective	3
Total			<u>15</u>

Fourth Semester		Spring	
TRM	470	Project Management	3
UCC†		Multicultural	3
		Elective	3
		Elective	3
		Elective	3
Total			<u>15</u>

†University Core Curriculum (*italicized* courses transfer as UCC).

‡Select a specialization, minor or group of related electives.

Technical Resource Management: Course Descriptions

Required Core

TRM 316-3 Applications of Technical Information. This course will increase students' abilities in communicating various types of workplace documents common to technical disciplines. Oral presentations will use computerized presentation software. The course is designed to meet the writing portion of the college's Communication-Across-the-Curriculum initiative. Prerequisite: junior standing and English 101; restricted to ASA majors or consent.

TRM 364-3 Work Center Management. A study of the problems of managing a small working unit (division, department, work center, section, etc.) within a larger unit (agency, company, regional office, etc.). Included items will be work center goals identification, staffing needs, monitoring of work process reporting, work center communications, and interpersonal relations within the work center.

TRM 383-3 Data Interpretation. This course will give students an understanding of the basic principles and techniques involved in the statistical treatment of data, including the selection of data source, the design of statistical studies, the analysis of data, and the utilization of data. Students will gain experience in using data for decision-making in their respective professions. Prerequisite: UCC mathematics requirement or consent of School. Restricted to ASA majors.

TRM 464-3 Managing for Quality. The course focuses on management techniques used to upgrade the level of quality of products and services in organizations. Topics cover the processes of continuous quality improvement: strategies and objectives, quality measures, participative management practices, worker empowerment, customer preferences and expectations, vendor/supplier inputs, process technology outputs, integrated feedback loops, and quality audits and review. Prerequisite: 364 and 383 or consent of School.

TRM 470-3 Project Management. This course is designed to provide students with an overview of the project management process followed by an in-depth examination of the activities needed to successfully initiate, plan, schedule, and control the time and cost factors of the project from a technical management perspective. Prerequisite: 464; Graduating senior status or consent of School.

Electives

TRM 332-3 Labor-Management Relations. Students will gain a general understanding of the economic situation of which labor-management problems represent a subset. They will develop a perspective on the evolution of labor relations in the United States economy and on how the interaction of labor and management differs throughout the world. The collective bargaining section introduces the student to the techniques of bargaining used by labor and management in their ongoing interactions.

TRM 361-3 Fiscal Aspects of Technical Management. An introduction to fiscal structures and problems encountered in the technically oriented enterprise. (Topics include, but are not limited to, interpreting financial statements, forecasting, budgeting, ratio analysis, strategic analysis, and special tools such as break-even analysis and relationships between quality, productivity, and personnel.)

TRM 362-3 Legal Aspects of Technical Management. An introduction to the types of legal problems encountered in the technically oriented enterprise. (Topics include, but are not limited to, contracts, civil and criminal liability, government relations, bankruptcy, and labor law.) Prerequisite: 316 or consent of School.

TRM 421-3 Professional Development. Introduces students to the various elements involved in obtaining a position in their chosen career field. Topics included are: personal inventories, placement services, employment agencies, interviewing techniques, resumes, letters of application, references, services, and employment tests. Each student will develop a portfolio including personal and professional information related to individual career goals. Prerequisite: 316 and ASA major or consent of School.

TRM 426-3 Technology and International Trade. The international trade of products and services is studied by examining the technology development and transfer concerns of transnational corporations and national governments in industrialized, newly industrialized and developing countries.

TRM 440-3 Technology and Management of Sustainable Enterprises. Focuses on the technology and business principles found in the growing sector of environmentally green enterprise. A variety of sustainable business practices will be studied.