415 Cost Estimating and Analysis
Fall. 3(2-2) P.M. (BCM 315 and BCM 385)
SA: BCM 324 C: BCM 411 concurrently.
Estimation of construction project costs: direct and
direct, labor, material, and equipment. Overhead and

423 Construction Project Management
Fall, Spring. 3(3-0) P.M: (BCM 411 or con-
currently and BCM 415 or concurrently) R: Open only to seniors in the Building Con-
struction Management or Civil Engineering
major.
Construction management principles and practices.
Project planning and controls.

435 Residential Building Projects (W)
Fall, Spring. 3(1-4) P.M: (ACC 230 and
BCM 423 or concurrently and BCM 328 and
BCM 353 or concurrently) and completion of
Tier I writing requirement. R: Open only to
seniors in the Building Construction Man-
agement major.
Development of a residential project and business
plan.

436 Commercial Building Projects (W)
Fall, Spring. 3(1-4) P.M: (ACC 230 and
BCM 423 or concurrently and BCM 328 and
BCM 353 or concurrently) and completion of
Tier I writing requirement. R: Open only to
seniors in the Building Construction Man-
agement major.
Evaluation, procurement and management of com-
mercial building projects.

490 Independent Study
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all
enrollments for this course. R: Open only to
Building Construction Management majors.
Approval of department; application re-
quired.
Special problems in acquisition and development of
residential land, design, construction technology,
building materials, finance, marketing, construction
management, or land use codes and regulations.

491 Special Topics in Building Construction Management
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all
enrollments for this course. R: Open only to Building Construction Management majors.
Approval of department. Topics such as computer methods in building con-
struction management, construction technology, solar energy, special land use codes or new tech-
nology management.

817 Construction Management Information Systems
Spring. 3(2-2) R: Approval of department;
applied required.
Information generation and utilization for the man-
agement of construction projects. Integration of
construction management software, conceptual
modeling and knowledge-based models.

822 Legal Issues in Construction
Spring. 3(3-0) P:NM: (BCM 422 or BCM
385) RB: A degree or experience in civil en-
gineering, human environment and design,
interior design, architecture, urban planning,
landscape architecture or law.
Application of Michigan and Federal case law to
construction and development claims and litigation.

823 Advanced Construction Project Management
Fall, Spring. 3(3-0) P:NM: (BCM 411 and
BCM 415) R: Open only to graduate stu-
dents in Building Construction Management.
Project management issues, services and documen-
tation, Bidding, cost accounting, scheduling. Project
planning and controlling.

870 Special Problems
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 4 credits in all
enrollments for this course. R: Open only to graduate students in College of Agriculture
and Natural Resources. Approval of de-
partment; application required.
Individual study in land acquisition and develop-
ment, design, construction, management, finance,
marketing, and structural analysis.

890 Advanced Topics in Building Construction Management
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all
enrollments for this course. R: Open only to graduate students in College of Agriculture
and Natural Resources. Approval of de-
partment.
Advanced topics in building construction manage-
ment.

891 Construction Management Research Seminar
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all
enrollments for this course. R: Open only to graduate students in College of Agriculture and
Natural Resources. Approval of de-
partment.
Current areas and topics of research in construction management. Resources of research results, analy-
sis of existing research and development of prelimi-
nary proposal.

898 Master's Research
Fall, Spring, Summer. 1 to 3 credits. A stu-
dent may earn a maximum of 6 credits in all
enrollments for this course. R: Open only to master's students in the Building Construc-
tion Management major.
Masters degree Plan B research paper.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 10 credits. A stu-
dent may earn a maximum of 99 credits in all
enrollments for this course. R: Open only to graduate students in Building Con-
struction Management.
Master's thesis research.

BUSINESS

The Eli Broad College of Business and The Eli Broad
Graduate School of Management

309 Business Information Systems and Technology
Fall, Spring, Summer. 3(3-0) P:NM: (CS 101 or concurrently) R: Open only to juniors or
seniors in the College of Business.
Role of information technology in shaping and sup-
porting business processes in a global marketplace.
Effects on organizations and individuals.

CELL AND
MOLECULAR
BIOLOGY

College of Natural Science

800 Cell and Molecular Biology Seminar
Fall, Spring. 1(1-0) A student may earn a maximum of 5 credits in all enrollments for this course.
R: Open only to students in the Cell and Molecular Biology major.
Current literature in such areas of cell and molecular biology as gene expression, intracellular transport, cell signalling, regulation of cell growth and cell structure.

880 Laboratory Rotation
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 12 credits in all
enrollments for this course. R: Open only to students in the Cell and Molecular Biol-
ogy major.
Participation in research projects in laboratories of Cell and Molecular Biology faculty.

892 Research Forum
Fall, Spring. 1(1-0) A student may earn a maximum of 4 credits in all enrollments for this course.
R: Open only to students in the Cell and Mo-
lecular Biology major.
Advanced graduate students present their laboratory research.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 6 credits. A stu-
dent may earn a maximum of 60 credits in all
enrollments for this course. R: Open only to students in the Cell and Molecular Biol-
ogy major.
Doctoral dissertation research.