

DEPARTMENT of MATHEMATICS

Degree Program: Bachelor of Science in Applied Mathematics

Catalog: 2009-2010 (Revised April 7, 2010)

Required Courses (70 credits in Mathematics plus 17-20 credits in supporting courses)

<u>Course Number</u>	<u>Prerequisite</u>
MATH 124 or 134	Suitable score on Advanced Placement test or at least C- in MATH 115 or 118
MATH 125 or 135 or MATH 138	MATH 124 or 134 Permission of instructor
MATH 204	MATH 125 or 135 or 138, 224 recommended
MATH 209 or 302	MATH 124 or 134 or 138; MATH 302: MATH 125 or 135 or 138
MATH 224	MATH 125 or 135 or 138
MATH 226	MATH 125 or 135 or 138
MATH 304	MATH 204, 224
MATH 312	MATH 226, one of 209, 302
MATH 331	MATH 204; 224 recommended or concurrent
MATH 341-342 or MATH 441-442	MATH 341: MATH 125 or 135 or 138; MATH 342: MATH 341 MATH 441: MATH 204, 224, 312; MATH 442: MATH 441
M/CS 375-475	M/CS 375: MATH 204; one of CSCI 140, 141, MATH 207; M/CS 475: M/CS 375, MATH 224

Note: The pair MATH 203, 303 may be substituted for the pair MATH 204, 331.

One of the following computer science or math courses:

CSCI 139, 140, 141	MATH 112
MATH 207	Basic computer literacy (CSCI 101 or equivalent); MATH 125 or 135 or 138; 204

No fewer than 3 additional credits at the 400 level from Math, M/CS, or CSCI 405 or 480

CSCI 405	CSCI 305. Note: CSCI 305 has CSCI 211, 241 as prerequisites; CSCI 211 and 241 has CSCI 145 or 146; 241 also requires MATH 124 or 134 or 157
CSCI 480	CSCI 351, MATH 125, 204

One of the following concentrations:

Operations Research Concentration

<u>Courses</u>	<u>Prerequisite</u>
M/CS 335-435	MATH 335: MATH 204 and one of CSCI 140, 141, MATH 207 M/CS 435: MATH 224
MATH 410	MATH 204, 224, 331

Engineering Concentration

<u>Courses</u>	<u>Prerequisite</u>
MATH 225	MATH 224
MATH 430 or MATH 432	MATH 204, 226, 331 MATH 204, 331
MATH 438	MATH 225, 226

One of the following sequences:

PHYS 121, 122, 123,
CHEM 121, 122, 123 or 125, 126, 225
CSCI 141, 145, 211, 241, 401
ECON 206, 207, 306, and one of 375, 470, 475