DIVISION OF MATHEMATICS

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Coordinator: Zebulun Marcotte, *Instructor*

Professors: Covington, DeVault, Galminas, Myers, Rushing, Serio
Associate Professors: Autrey, Reeves
Assistant Professor: Richardson
Instructors: Davidson, Kelly, Maggio, Porter, Self, Veuleman

Degree Program Available Through the Department of Mathematics:

Bachelor of Science program in: Mathematics with concentrations in: healthcare informatics, actuarial mathematics, applied mathematics, computer science, sport analytics

Mathematics

Mathematics Major Requirements: (45 semester hours) Students seeking a major in Mathematics must complete 45 semester hours, within the 120 semester hour Mathematics curriculum, which include Mathematics 1010, 2080, 2100, 2110, 3090, 3100, 3130, 4940, 4950, 15 semester hours from 3000-4000 level mathematics courses or Statistics 4270 with at least 6 of these hours from 4000 level courses. Mathematics 4050 may not be used to satisfy the requirements of the Mathematics major.

Requirements for a Minor in Mathematics: (20 semester hours) Mathematics 2100, 2110 and ten additional hours selected from 2080, and/or any 3000-4000 level mathematics course(s) or Statistics 4270 or 4280. Mathematics 4050 may not be used to satisfy the requirements of the Mathematics minor.

Available Concentration:

Healthcare Informatics (642A): Mathematics 3150, 3160, 3 hours of Mathematics 4900, Statistics 4270, Computer Information Systems 1030, 2100, 2980, 3300, 3900, 4000 4020.

Actuarial Mathematics (642B): Mathematics 3150, 3270, 3 hours of Mathematics 4900, Statistics 4270, 4280, Business Administration 1800, Computer Information Systems 2000, Accounting 2000, 2010, Finance 3090, 4200, Economics 2000, 2010.

Applied Mathematics (642C): Mathematics 3160, 3170, 4100, 4260, Statistics 4270, 4280, Computer Science 3040, Physics 3900, 4100, Chemistry 3210, 3220, Biology 3060-3061.

Computer Science (642D): Mathematics 3030, 3150, 3910, 4060, 4100, Computer Science 2020, 2100, 3030, 3120, 4001, 4010, 4040, Computer Information Systems 3970, Electrical Engineering Technology 1330, 1331.

Sport Analytics (642E): Mathematics 2050, 3150, 3300, 3310, Statistics 4270, 4280, Computer Science 2020, 2100, Business Administration 2120, Computer Information Systems 2000, 2980, 4070, Economics 2000, 2010, English 3210 or 3230, Human Performance 4400.

Curriculum for Mathematics (642)

FIRST YEAR	SEM. HRS.
Communication 1010	3
Electives[4]	3
English 1010, 1020	6
Fine Arts 1040	3
History 1010, 1020, 2010 or 2020	3
Mathematics 1010, 2100, 2110	11
University Studies 1000	1
	30

SECOND YEAR	SEM. HRS.
Biology 1010-1011	4
Computer Science 1060, 2060	6
Electives[4]	3
English 2110	3
Mathematics 2080, 3090, 3130	10
Physics 2510-2511	4
	30

THIRD YEAR	SEM. HRS.
Behavioral science[1]	3
Chemistry 1030-1031	4
Electives[4]	6
Mathematics 3100, electives[2]	12
Science elective[3]	4
Social science[1]	3
	32

FOURTH YEAR	SEM. HRS.
Electives[4]	16
Mathematics 4940, 4950, electives[2]	12
	28

Total Semester Hours for Degree 120

Footnotes:

1 Must meet University core requirements.

2 Upper level mathematics, Statistics 4270 or 4280. At least 6 hours must be above 4000. Mathematics 4050 may not be used to satisfy this requirement. Students in the Healthcare Informatics concentration will take Mathematics 3150, 3160, 3 hours of Mathematics 4900, Statistics 4270 and 6 additional hours. Students in the Actuarial Mathematics concentration will take Mathematics 3270, 3150, 3 hours of Mathematics 4900, Statistics 4270, 4280, and 3 additional hours. Students in the Applied Mathematics concentration will take Mathematics 3160, 3170, 4100, 4260, Statistics 4270 and 4280. Students in the Computer Science concentration will take Mathematics 3030, 3150, 3910, 4060, and 4100. Students in the Sport Analytics concentration will take Mathematics 3150, 3300, 3310, Statistics 4270 and 4280.

3 Selected from one of the following three sequences: Biology 1020-1021, Chemistry 1040-1041, or Physics 2520- 2521. Students in the Applied Mathematics and Computer Science concentrations will take Physics 2520-2521.

4 Students in the Healthcare Informatics concentration will take Computer Information Systems 1030, 2100, 2980, 3300, 3900, 4000, 4020, and 7 additional hours. Students in Actuarial Mathematics will take Economics 2000, 2010, Business Administration 1800, Computer Information Systems 2000, Accounting 2000, 2010, Finance 3090, 4200, and 4 additional hours. Students in the Applied Mathematics concentration will take Computer Science 3040, Chemistry 3210, 3220, Physics 3900, 4100, Biology 3060-3061, and 6 additional hours. Students in the Computer Science concentration will take Computer Science 2020, 2100, 3030, 3120, 4001. 4010, 4040, Computer Information Systems 3970, Electrical Engineering Technology 1330, 1331, and one of the following: Computer Science 3040, 4900, Computer Information Systems 2980, Electrical Engineering Technology 3310, or Physics 3510. Students in the Sport Analytics concentration will take Mathematics 2050, Computer Science 2020, 2100, Computer Information Systems 2000, 2980, 4070, Business Administration 2120, Economics 2000, 2010, Human Performance 4400, and either English 3210 or 3230.