

SP 105-250-350 Intensive Spanish Immersion
 ENWR 363 Literary Translation
 SP 301-302 Hispanic Short Story I and II
 TH 333 Church and State in Latin America

Allied Courses (6 credits)

AN/SO 318 American Indians
 SA 275 Study Abroad: Belize
 BI 101 Life Science
 FR 301 Francophone Literature
 GEOG 202 World Regional Geography
 PO 280 Intro. to Comparative Politics
 PO 328 The Developing World
 AN/SO 204 Cultural Anthropology
 AN/SO 317 Ethic and Racial Relations
 SP 304 Spanish Phonetics and Phonology
 TH 210 Catholicism

II. Other Program Requirement

Completion of Spanish acquisition through the intermediate level.

MATHEMATICS

KELLY CLINE, PH.D.
 MARY E. KEEFFE, PH.D.
 TERENCE J. MULLEN, P.E.
 JACK E. OBERWEISER, JR., M.A.T.
 MARK R. PARKER, PH.D.
 PHILIP B. ROSE, M.SC.
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 ANTHONY M. SZPILKA, PH.D.
 JAMES A. TRUDNOWSKI, ED.D.
 HOLLY ZULLO, PH.D.

Mission and Goals

Consonant with the mission of the College, this department is “dedicated to providing for its students the means for their full realization of a dual goal of vocation and enlightenment.” Society requires competent professionals who can solve contemporary problems by using connections among disciplines, especially the humanities, engineering and technology, and the sciences. The Programs within this Department are designed to blend the unique characteristics of Catholic liberal arts education with preparation for productive and rewarding professional careers. The four professional educational objectives of this department are to produce graduates who have:

- 1) The specialized knowledge and skills necessary for initiation into their chosen profession,
- 2) A broad range of skills necessary for effective communication,
- 3) An appreciation for the interrelationships among the branches of knowledge,
- 4) The ethical, social, and aesthetic perspectives necessary for values-based judgment and decision-making.

Major in Mathematics with a Cognate Concentration, Minor, or Second Major

The mathematics program has adopted the philosophy and goals of the department.

I. Major Program Requirements

MA 131 Calculus of Single Variable Functions
 or MA 121-122 Differential and Integral Calculus
 MA 232 Differential Equations and Linear Algebra I
 MA 233 Multivariable Calculus

MA 301 Foundations of Mathematics
 MA 328 Modern Applications of Discrete Mathematics
 MA 334 Differential Equations and Linear Algebra II
 MA 336 Probability and Statistics I
 MA 341 Probability and Statistics II
 MA 342 Numerical Computing and Visualization
 MA 366 Junior Seminar
 MA 401 Abstract Algebra and Modern Geometry
 MA 421 Optimization
 MA 4xx Honors Thesis/Senior Project (for a total of at least 3 credits)

Other Program Requirements

ENWR 305 Technical Writing
 or ENWR 301 Business Writing (for the Business and Economics Concentration only)

II. Required Cognate Concentration, Minor, or Second Major

The course of study for a Bachelor of Arts degree with a major in mathematics requires selection of a cognate concentration, a minor, or a second major, approved by the student’s faculty advisor and the chair of the mathematics department. Approved selections include Biology, Business and Economics, Chemistry, Computer Science, Engineering, and Environmental Science. In consultation with faculty advisors and the mathematics department chair, a student can develop a proposal for a cognate concentration, minor, or a second major other than those listed. Requirements for approved concentrations, minors, and second majors are as follows:

- A. Concentration in Biology
 A minor or a second major in biology.
- B. Concentration in Business and Economics
 BA 203-204 Principles of Accounting I and II
 BA 313 Managerial Finance
 BA 375 Fundamentals of Management
 BA 409 Operations Research
 EC 202 Principles of Economics II and
 EC 201 Principles of Economics I
 or EC 203 Project Management Economics
 Plus 3 additional BA, CS, or EC credits at the 200 level or above approved by the mathematics department.
- C. Concentration in Chemistry
 A minor or a second major in chemistry.
- D. Concentration in Computer Science
 A minor or a second major in computer science.
- E. Concentration in Engineering
 CH 101-102 General Chemistry
 ENGR 104 Engineering Graphics and CAD
 ENGR 302 Engineering Mechanics I: Statics
 PHYS 205-206 Engineering Physics I and II
 CS 110 Programming
 Plus at least 12 additional semester-credit hours in engineering courses 300 or above.
- F. Concentration in Environmental Science
 BI 161-162 Introductory Biology
 BI 211 Ecology
 CH 111-112 Essentials of Chemistry
 ENGR 313 Hydrology
 ENGR 402 Environmental Engineering Principles
 EAS 201 Earth Science
 EAS 302 Advanced Earth Science

G. Concentration in Physics

A minor in physics.

H. Concentration in Operations Research *

BA 409	Operations Research
CS 110 I	Intro. to Computer Science
CS 120	Data Structures
CS 310	Database Design and Implementation I
CS 311	Database Design and Implementation II
EC 201	Principles of Economics I
EC 202	Principles of Economics II

Recommended: CS 230 Software Engineering

To earn a Bachelor of Arts degree with a major in mathematics, a student must earn a grade of “C” or better in all of the courses listed under “Major Program Requirements,” “Required Cognate Concentration or Minor,” and “Other Program Requirements.” A lesser grade in any of these courses must be replaced before the Bachelor of Arts degree with a major in mathematics will be granted. In addition, lesser grades in any of these courses preclude taking subsequent courses for which the deficient courses are prerequisite.

*Pending Approval

Major in Mathematics for Secondary Education

I. Broadfield Major Program Requirements

MA 131	Calculus of Single Variable Functions or MA 121-122 Differential and Integral Calculus
MA 232	Differential Equations and Linear Algebra I
MA 233	Multivariable Calculus
MA 301	Foundations of Mathematics
MA 328	Modern Applications of Discrete Mathematics
MA 334	Differential Equations and Linear Algebra II
MA 336	Probability and Statistics I
MA 341	Probability and Statistics II
MA 342	Numerical Computing and Visualization
MA 401	Abstract Algebra and Modern Geometry
MA 421	Optimization
MA 471	History Seminar in Mathematics
MA 4xx	Honors Thesis/Senior Project (for a total of at least 3 credits)

II. Other Program Requirements

Two semesters of college science approved by the mathematics department.

One English writing course above ENWR 102

III. Professional Education Requirements

AN/SO 218	Introduction to Native American Studies
ED 102	Foundations of Education
ED 205	Classroom Management
ED/PSY 229	Educational Psychology
ED 245	Diversity Field Experience
ED 318	Content Area Reading and Secondary Methods
ED 405	Education Seminar
ED 410	Student Teaching
ED 412	Measurement & Assessment in Teaching
ED 418	Teaching Mathematics in the Secondary School
HPE 214	The School Health Program
PSY 228	Adolescent Psychology
SPED 300	Introduction to Exceptional Children

United States and contemporary world cultures course(s) see index for page number.

IV. Acceptance into the Teacher Education Program and the Student Teaching Program

- Teacher Education Program: Students pursuing academic programs that lead to teacher licensure must be accepted into the teacher education program by the end of their sophomore year.
- Student Teaching Program: All preservice teachers must obtain admission to the student teaching program in the spring semester of their junior year. For details see index for page numbers for Teacher Education and Student Teaching Programs.

Note: All secondary education students must consult both with the Department of Education: Health, Physical, and Teacher and the Department of Mathematics, Engineering, and Computer Science.

Minor in Mathematics

Minor Program Requirements

MA 131	Calculus of Single Variable Functions or MA 121-122 Differential and Integral Calculus
MA 232	Calculus, Linear Algebra, and Differential Equations
MA 233	Multivariable Calculus
MA 334	Differential Equations and Linear Algebra
MA 336	Probability and Statistics I

Plus two more 3- or 4-credit mathematics courses at the 300 level or above approved by the mathematics program director.

NURSING

MARIA BROSNAN, RN, MSN, ACNP-BC
JENNIFER ELISON, RN, EdD, PMHCNS-BC
KIM GARRISON, RN, MN
DONNA GREENWOOD, RN, MSN
JONI WALTON, RN, PHD, ACNS-BC, RRT
CYNDE WATKINS, RN, MSN

Mission

Inspired by the mission of our College, we are dedicated to preparing professional nurses who promote excellence in holistic care. As community leaders, they are critical thinkers, change agents, compassionate and skilled caregivers, as well as lifelong learners. Our graduates serve Montana, our region and the world.

Goals

The Department of Nursing prepares its graduates to enter into the practice of professional nursing with a framework of knowledge integrated from the sciences, arts and humanities. Emphasis is placed on the delivery of holistic nursing care which recognizes the dignity and uniqueness of every person. Completion of the major provides the foundation for life-long learning and graduate study in nursing.

The Faculty of the Department of Nursing seeks distinction in teaching, nursing scholarship and clinical expertise, for planning, directing and evaluating the curriculum.

Expected Outcomes

A graduate of the Department of Nursing will pass the NCLEX-RN licensure examination and enter into the profession of nursing with the following abilities:

- Integrate knowledge from the sciences, arts and humanities into nursing practice.
- Utilize the nursing process to deliver holistic human care to individuals, families and communities.
- Utilize knowledge and skills to practice independently and collaboratively with other disciplines in diverse settings.
- Integrate moral, ethical and legal principles into nursing practice.