

## Course Sequence for Medical & Veterinary Sciences Option of Biomedical Science Major

	Fall Semester	Spring Semester
<b>First Year</b>	<input type="checkbox"/> BMS 401 – Professional Perspectives in Biomedical Science <input type="checkbox"/> BIOL 411 – Principles of Biology <input type="checkbox"/> ENGL 401 - First-Year Writing <input type="checkbox"/> CHEM 403 – General Chemistry <input type="checkbox"/> Discovery course	<input type="checkbox"/> BIOL 412 – Principles of Biology <input type="checkbox"/> MATH 424B – Calculus for Life Sciences <input type="checkbox"/> CHEM 404 – General Chemistry <input type="checkbox"/> Discovery course
<b>Second Year</b>	<input type="checkbox"/> GEN 604 – Principles of Genetics <input type="checkbox"/> CHEM 651/653 – Organic Chemistry I <input type="checkbox"/> ANSC 511 – Anatomy & Physiology I or BMS 507 – Human Anatomy & Physiology <input type="checkbox"/> Discovery course	<input type="checkbox"/> BMS 503 – General Microbiology <input type="checkbox"/> CHEM 652/654 – Organic Chemistry II <input type="checkbox"/> ANSC 512 – Anatomy & Physiology II or BMS 508 – Human Anatomy & Physiology <input type="checkbox"/> Discovery course
<b>Third Year</b>	<input type="checkbox"/> BMB 658/659 - General Biochemistry <input type="checkbox"/> PHYS 401 – Introduction to Physics <input type="checkbox"/> BIOL 528 – Applied Biostatistics <input type="checkbox"/> Major Elective	<input type="checkbox"/> Major elective <input type="checkbox"/> PHYS 402 – Introduction to Physics <input type="checkbox"/> Major Elective <input type="checkbox"/> Discovery course
<b>Fourth Year</b>	<input type="checkbox"/> Major Elective (Capstone experience) <input type="checkbox"/> Major Elective <input type="checkbox"/> Elective <input type="checkbox"/> Elective	<input type="checkbox"/> Major Elective <input type="checkbox"/> Major Elective <input type="checkbox"/> Elective <input type="checkbox"/> Elective

### Major Electives:

Seven unique major elective courses are required. Two courses must be taken in each of the three subject areas below. One additional course is taken from the entire set of approved [MVS Major Electives List](#).

### Biomedical Systems Electives

#### Recommended courses:

BMCB 605	Eukaryotic Cell & Developmental Biol.
BMS 702	Endocrinology
BMS 718	Mammalian Physiology
GEN 717	Molecular Microbiology
NUTR 750	Nutritional Biochemistry

For other courses appropriate for this category, see [MVS Major Electives List](#)

### Pathobiology and Disease Electives

#### Recommended courses:

BMCB 763	Biochemistry of Cancer
BMS 602	Pathogenic Microbiology
BMS 704	Pathologic Basis of Disease
BMS 705	Immunology

For other courses appropriate for this category, see [MVS Major Electives List](#)

### Health & Environmental Issues Electives

#### Recommended courses:

BIOL 541	General Ecology
BMS 730	Ethics and Issues in Microbiology
HMP 501	Epidemiology and Community Medicine
HMP 715	Environmental Health
SOC 635	Medical Sociology

For other courses appropriate for this category, see [MVS Major Electives List](#)