Agricultural Biology Concentrations/Options-Honors Track

Concentrations: Applied Biology

The Applied Biology option prepares you for professional advancement including admittance to medical, dental, veterinary and graduate schools. Students interested in the health professions must register with the Health Professional Advisory Committee no later than the sophomore year. Students should check the specific entrance requirements for the professional or graduate school of their choice prior to selecting electives within this option.

**HONORS COLLEGE:**

The highlighted courses reflect options of Honors Courses to take. The Honors College requires students to take **a total of 18 credit hours** with an **honors designation**, of which at least 9 credits must be upper division (300+). These are classes with an HON prefix or **courses by contract**\*. 3 of the total 18 must be a Senior Capstone experience taken under HON 400 or HON 410 or by contract.

 Not all of the honors courses highlighted are offered every semester. Be sure to talk to your advisor and to check the Honors College website for a list of approved courses for the semester. Go to the Honors College website🡪 For Students tab🡪 Courses or use the Course Lookup Screen and scroll to HON in the drop down menu. Look at the courses being offered in Areas IV (Behavioral Sciences), V (Humanities and Fine Arts) , or Viewing the Wider World. Search for those courses when you register for the semester.

\*Honors Course by Contract: Non-Honors courses may count as upper level Honors courses by contracting the course. An Honors Contract is a mechanism for adding an “honors dimension” to a course that is not listed as an honors course. The contract allows honors students to convert a regular non-honors course that is numbered 300 or higher into an honors course that counts towards graduation with University Honors. If the course is cross-listed as a graduate-level course, students should enroll in the 500 level class. Go to [www.honors.nmsu.edu/for-students/honors-courses-by-contract/](http://www.honors.nmsu.edu/for-students/honors-courses-by-contract/) for more information.

\*\*Masters Accelerated Program: MAP is a program that allows students with a 3.0 GPA or higher to take up to 12 graduate credits during their undergraduate that can be applied towards a Master’s degree. Any 450 level class or above can count towards MAP and it can count as Honors College credits and General University credits. Go to https://honors.nmsu.edu/masters-accelerated-program-map/

**Required Courses:**

BCHE 341 Survey of Biochemistry 4

CHEM 313 Organic Chemistry I 3

CHEM 314 Organic Chemistry II 3

CHEM315 Organic Chemistry Laboratory 2

MATH 190G Trigonometry and Pre-calculus 4

MATH 191G Calculus and Analytic Geometry I 4

PHYS 211G General Physics I 3

 or PHYS 221G General Physics for Life Sciences I

PHYS 211GL General Physics I Laboratory 1

 or PHYS 221 GL Laboratory to General Physics for Life Science I

**Select 6-8 credits from the following:**  **6-8**

ANSC 370 Anatomy and Physiology of Farm Animals 4

BIOL 312 Plant Taxonomy 3

BIOL 354 Physiology of Humans 3

BIOL 377 Cell Biology 3

EPWS 314 or EPWS 314H Plant Physiology 3

EPWS 373 Fungal Biology 3

EPWS 481 Plant Nematology 3

**Suggested Electives:**

MATH 192G Calculus and Analytic Geometry II 4

PHYS 212G General Physics II 3

 or PHYS 222G General Physics for Life Sciences II

**Total Credits: 37-39**