

**ANIMAL SCIENCES (067)**  
**LABORATORY ANIMAL SCIENCE OPTION CHECKLIST**

Please use the following checklist to review your courses but also check on Degree Navigator to ensure all categories are "checked" off. Please contact Dr. Aparna Zama (zama@sebs.rutgers.edu; 848-932-8495), if you have any questions.

**R1, R2, R3, and R7 are common to ALL Animal Science Options. R4, R5, R6, and R8 are specific to the Laboratory Animal Science option.**

| <b>R1: General Biology (3 courses; 8-10 credits)</b> |                                | <b>Completed</b> |
|------------------------------------------------------|--------------------------------|------------------|
| 01:119:115                                           | General Biology I (4 cr)       |                  |
| 01:119:116                                           | General Biology II (4 cr)      |                  |
| 01:119:117                                           | Biological Research Lab (2 cr) |                  |
| <b>OR</b>                                            |                                |                  |
| 01:119:101                                           | General Biology (4 cr)         |                  |
| 01:119:102                                           | General Biology (4 cr)         |                  |

| <b>R2: General Chemistry (3 courses; 9 credits)</b> |                                        | <b>Completed</b> |
|-----------------------------------------------------|----------------------------------------|------------------|
| 01:160:161                                          | General Chemistry I (4 cr)             |                  |
| 01:160:162                                          | General Chemistry II (4 cr)            |                  |
| 01:160:171                                          | Introduction to Experimentation (1 cr) |                  |

| <b>R3: Proficiency in Animal Sciences (7 courses; 16-17 credits)</b> |                                                                              | <b>Completed</b> |
|----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------|
| 11:067:142                                                           | Animal Science (3 cr)                                                        |                  |
| 11:067:205                                                           | Lab Animal Practicum (2 cr)                                                  |                  |
| 11:067:300                                                           | Integrative Physiology (4 cr) <b>OR</b> 01:146:356 Systems Physiology (3 cr) |                  |
| 11:067:327                                                           | Animal Reproduction (3 cr)                                                   |                  |
| 11:067:330                                                           | Animal Nutrition (3 cr)                                                      |                  |
| 11:067:331                                                           | Animal Nutrition Lab (1 cr)                                                  |                  |
| 11:067:328                                                           | Animal Genetics (3 cr) <b>OR</b> 01:447:380 Genetics (4 cr)                  |                  |

| <b>R4: Laboratory Animal Science Requirements (6 courses; 20 credits)</b> |                                                                              | <b>Completed</b> |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------|
| 11:067:275                                                                | Laboratory Animal Science: Management & Techniques (3 cr)                    |                  |
| 11:067:404                                                                | Animal Diseases (3 cr)                                                       |                  |
| 11:067:430                                                                | Animal Microtechniques and Tissue Culture (4 cr)                             |                  |
| 01:960:401                                                                | Basic Statistics for Research (3 cr)                                         |                  |
| 11:680:390                                                                | General Microbiology (4 cr) <b>OR</b> 01:447:390 General Microbiology (4 cr) |                  |
| 11:373:121                                                                | Principles and Applications of Microeconomics (3 cr)                         |                  |

| <b>R5: Mathematics (4 credits)</b> |                                                                         | <b>Completed</b> |
|------------------------------------|-------------------------------------------------------------------------|------------------|
| 01:640:111                         | Precalculus Pt. I (2 cr) <b>AND</b> 01:640:112 Precalculus Pt. 2 (2 cr) |                  |
| <b>OR</b>                          |                                                                         |                  |
| 01:640:115                         | Precalculus College Mathematics (4 cr)                                  |                  |
| <b>OR</b>                          |                                                                         |                  |
| 01:640:135                         | Calculus I for the Life and Social Sciences (4 cr)                      |                  |
| <b>OR</b>                          |                                                                         |                  |
| 01:640:151                         | Calculus for Mathematical and Physical Sciences (4 cr)                  |                  |

| <b>R6: Organic Chemistry (10 credits)</b> |                                                                                             | <b>Completed</b> |
|-------------------------------------------|---------------------------------------------------------------------------------------------|------------------|
| 01:160:307                                | Organic Chemistry I (4 cr)                                                                  |                  |
| 01:160:308                                | Organic Chemistry II (4 cr)                                                                 |                  |
| 01:160:311                                | Organic Chemistry Laboratory (2 cr)                                                         |                  |
| <b>OR</b>                                 |                                                                                             |                  |
| 01:160:313                                | Organic Chemistry Lab Pt. 1 (1 cr) <b>AND</b> 01:160:314 Organic Chemistry Lab Pt. 2 (1 cr) |                  |

| <b>R7: Experience-Based Education (7 credits)</b> |                                                           | <b>Completed</b> |
|---------------------------------------------------|-----------------------------------------------------------|------------------|
| 11:067:175                                        | Animal Handling, Fitting and Exhibition (1 cr)            |                  |
| 11:067:176                                        | Animal Handling, Fitting and Exhibition Supervisor (1 cr) |                  |
| 11:067:200                                        | Animal Practicum (2 cr)                                   |                  |
| 11:067:204                                        | Animal Practicum (2 cr)                                   |                  |
| 11:067:205                                        | Laboratory Animal Practicum (2 cr)                        |                  |
| 11:067:411                                        | Studies in Animal Science (1-4 cr)                        |                  |
| 11:067:414                                        | Teaching in Animal Science (1-3 cr)                       |                  |
| 11:067:415                                        | Leadership in Animal Science (1-2 cr)                     |                  |
| 11:067:416                                        | <i>In Vivo</i> Lab Animal Techniques (3 cr)               |                  |
| 11:067:493/494                                    | Research in Animal Science (1-6 cr)                       |                  |
| 11:554:487/488                                    | GH Cook Honors Program (6-12 cr)                          |                  |
| 11:902:300/301                                    | SEBS Internship I/II (3 cr or 6 cr)                       |                  |

| <b>R8: Laboratory Animal Science Electives (6 credits)</b>                                           |                                                          | <b>Completed</b> |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|
| 11:067:101                                                                                           | Careers in Animal Science (3 cr)                         |                  |
| 11:067:322                                                                                           | Dairy Cattle Artificial Insemination (1 cr)              |                  |
| 11:067:336                                                                                           | Livestock Production and Management II (3 cr)            |                  |
| 11:067:384                                                                                           | Horse Management (3 cr)                                  |                  |
| 11:067:390                                                                                           | Equine Nutrition (3 cr)                                  |                  |
| 11:067:391                                                                                           | Comparative Mammalian Anatomy (3 cr)                     |                  |
| 11:067:395                                                                                           | Animal Assisted Therapy (3 cr)                           |                  |
| 11:067:398                                                                                           | Advanced Equine Health Care & Management (3 cr)          |                  |
| 11:067:401                                                                                           | Topics in Equine Science (3 cr)                          |                  |
| 11:067:402                                                                                           | Equine Exercise Physiology (3 cr)                        |                  |
| 11:067:406                                                                                           | Farm Productivity Analysis in the Animal Sciences (3 cr) |                  |
| 11:067:410                                                                                           | Neuroendocrinology (3 cr)                                |                  |
| 11:067:413                                                                                           | Developing Future Leaders for the Equine Industry (1 cr) |                  |
| 11:067:416                                                                                           | <i>In Vivo</i> Lab Animal Techniques (3 cr)              |                  |
| 11:067:450                                                                                           | Endocrinology (4 cr)                                     |                  |
| 11:067:460                                                                                           | Animals and the Law (3 cr)                               |                  |
| 11:067:490                                                                                           | Pathophysiology (3 cr)                                   |                  |
| <b>**Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!</b> |                                                          |                  |