Cover Sheet: Request 12628

CALS BS Animal Sciences Semesters 6 - 8 Universal Tracking Plan

Info

Process	Major Curriculum|Modify|Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Amie Imler amie.taylor@ufl.edu
Created	4/30/2018 11:16:59 AM
Updated	9/24/2019 11:51:49 AM
Description of request	Critical tracking proposed changes for the Animal Biology, Equine and Food Animal specializations within the Animal Sciences major.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Agricultural and Life Sciences - General 514903000	Joel H Brendemuhl	Approved by Joel Brendemuhl.	4/30/2018
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by Joel H. Brendemuhl on behalf of the CALS Curriculum Committee.	4/30/2018
No document changes					
Associate Provost for Undergraduate Affairs	Recycled	PV - Associate Provost for Undergraduate Affairs	Casey Griffith	At Request of J. Brendemuhl	8/2/2019
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Edits requested by Dr. Lindner have been addressed.	8/11/2019
Animal Sciences - UT Semesters 6-8 - JHB edits.docx					8/11/2019
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		9/24/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/24/2019
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					

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Step	Status	Group	User	Comment	Updated
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

Major|Modify_Curriculum for request 12628

Info

Request: CALS BS Animal Sciences Semesters 6 - 8 Universal Tracking Plan
Description of request: Critical tracking proposed changes for the Animal Biology, Equine and Food Animal specializations within the Animal Sciences major.
Submitter: Amie Imler amie.taylor@ufl.edu
Created: 4/30/2018 10:35:12 AM
Form version: 1

Responses

Major Name Animal Sciences
Major Code AL
Degree Program Name Bachelor of Science
Undergraduate Innovation Academy Program No
Effective Term Earliest Available
Effective Year Earliest Available
Current Curriculum for Major Animal Sciences
Potential careers for animal sciences majors include livestock production (beef cattle, dairy cattle, swine, poultry and horses), livestock processing and utilization (meat, milk, performance and recreation), allied service industries (feed, health care, genetics, equipment, supplies, marketing, promotion, finance and education) and preparation for graduate or veterinary medical school.

About this Major
College: Agricultural and Life Sciences
Degree: Bachelor of Science
Credits for Degree: 120
Specializations:
Animal Biology; Equine; Food Animal
Academic Learning Compact
Additional Information

Related Animal Sciences Programs
To graduate with this major, students must complete all university, college, and major requirements.

Overview
By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, extension education or agricultural operations management while completing the degree requirements for the equine or food animal specialization.

Animal Biology
Critical TrackingModel Semester Plan
This specialization is for students who wish to pursue professional or graduate programs. Students who plan to apply to the UF College of Veterinary Medicine in the equine, food animal or mixed-practice tracks are encouraged to select electives from the animal sciences programs.

Critical Tracking
Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1
Complete 1 of 5 critical-tracking courses, excluding labs: BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2045L, CHM 2046/2046L, MAC 2311
2.5 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 2

Complete 1 additional critical-tracking course, excluding labs
2.5 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 3
Complete 1 additional critical-tracking course, excluding labs
2.5 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 4
Complete 2 additional critical-tracking course, excluding labs
2.5 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 5
Complete all critical-tracking courses, including labs
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Model Semester Plan
To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester 1 Credits
CHM 2045 General Chemistry 1, 3 credits, and
CHM 2045L General Chemistry 1 Laboratory, 1 credit
State Core GE-B/P 4
ENC 1101 Expository and Argumentative Writing
State Core GE-C; WR 3
Elective3
Humanities
State Core GE-H 3
Total 13
Semester 2 Credits
AEC 3030C Effective Oral Communication or
SPC 2608 Introduction to Public Speaking 3
CHM 2046 General Chemistry 2, 3 credits, and
CHM 2046L General Chemistry 2 Laboratory, 1 credit
GE-P 4
ENC 1102 Argument and Persuasion
GE-C 3
IUF 1000 What is the Good Life
GE-H 3
ECO 2013 Principles of Macroeconomics
State Core GE-S 4
Total 17
Semester 3 Credits
AEC 3033C Research and Business Writing in Agricultural and Life Sciences (WR) or
ENC 2210 Technical Writing 3
BSC 2010 Integrated Principles of Biology 1, 3 credits, and
BSC 2010L Integrated Principles of Biology Laboratory 1, 1 credit
GE-B 4
Electives 9
Total 16
Semester 4 Credits
BSC 2011 Integrated Principles of Biology 2, 3 credits, and
BSC 2011L Integrated Principles of Biology Laboratory 2, 1 credit
GE-B 4
MAC 2311 Calculus 1
State Core GE-M 4
Social and Behavioral Sciences
GE-S; N 3
Electives 4

Total 15
Semester 5 Credits
ANS 3006 Introduction to Animal Science, 3 credits, and
ANS 3006L Introduction to Animal Science Laboratory, 1 credit 4
ANS 3440 Principles of Animal Nutrition 4
CHM 2210 Organic Chemistry 1 3
Elective 3
Total 14
Semester 6 Credits
ANS 3319C Reproductive Physiology and Endocrinology of Domestic Animals 4
CHM 2211 Organic Chemistry 2, 3 credits, and
CHM 2211L Organic Chemistry Laboratory, 2 credits
5
Approved elective 3
Elective 3
Total 15
Semester 7 Credits
ANS 3043 Growth and Development of Farm Animals 3
BCH 3025 Fundamentals of Biochemistry or
BCH 4024 Introduction to Biochemistry and Molecular Biology 4
STA 2023 Introduction to Statistics 1
GE-M 3
Approved elective 3
Elective 3
Total 16
Semester 8 Credits
MCB 3020 Basic Biology of Microorganisms, 3 credits, and
MCB 3020L Laboratory for Basic Biology of Microorganisms, 1 credit 4
Approved elective 2
Electives 8
Total 14
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Approved Electives
Students must take a minimum of 8 credits of ANS courses in addition to the ANS courses identified above; 4 credits each of lecture and laboratory courses.

Courses Credits
Lecture
ANS 2002 The Meat We Eat 3
ANS 2615C Meat Selection and Grading 2
ANS 3251 Biology and Management of Dairy Cattle 2
ANS 3384C Genetics of Domestic Animals 3
ANS 3404C Food Animal Nutrition and Feeding 3
ANS 3405 Equine Nutrition and Feeding Management 2
ANS 3934 Careers in the Livestock Industry 2
Laboratory
ANS 3217C Equine Health Management 2
ANS 3239L Techniques in Equine Science 2
ANS 3250L Dairy Cattle Practicum 2
ANS 3613L Livestock and Meat Evaluation 2
ANS 3634C Meats 3
ANS 4231 Practicum in Horse Management and Training Technique 1
ANS 4604C Live Animal Evaluation 2
ANS 4635C Meat Processing 3
Electives
Consider these pre-vet requirements
Courses Credits
AGR 3303 Genetics, 3 credits, or
ANS 3384C Genetics of Domestic Animals, 3 credits, or
PCB 3063 Genetics, 4 credits (GE-B) 3-4
PHY 2053 Physics 1, 4 credits, and
PHY 2053L Laboratory for Physics 1, 1 credit (GE-P) 5

PHY 2054 Physics 2, 4 credits, and
PHY 2054L Laboratory for Physics 2, 1 credit (GE-P) 5
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Equine
Critical TrackingModel Semester Plan
Career preparation can be strengthened through electives.

Critical Tracking
Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1
Complete 2 of 6 critical-tracking courses, excluding labs: BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2045L, MAC 1147, STA 2023, and AEB 2014 or ECO 2013 or ECO 2023
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 2
Complete 1 additional critical-tracking course, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 3
Complete 2 additional critical-tracking courses, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 4
Complete 1 additional critical-tracking course, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 5
Complete all critical-tracking course, including labs
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Model Semester Plan
To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester 1 Credits
BSC 2010 Integrated Principles of Biology 1, 3 credits, and
BSC 2010L Integrated Principles of Biology Laboratory 1, 1 credit
State Core GE-B/P 4
MAC 1147 Precalculus: Algebra and Trigonometry
State Core GE-M 4
ENC 1101 Expository and Argumentative Writing
State Core GE-C; WR 3
Humanities
State Core GE-H; D 3
Total 14
Semester 2 Credits
AEC 3030C Effective Oral Communication or
SPC 2608 Introduction to Public Speaking 3
BSC 2011 Integrated Principles of Biology 2, 3 credits, and
BSC 2011L Integrated Principles of Biology Laboratory 2, 1 credit
GE-B 4
ECO 2013 Principles of Macroeconomics
State Core GE-S 4
ENC 1102 Argument and Persuasion

GE-C 3
IUF 1000 What is the Good Life
GE-H 3
Total 17
Semester 3 Credits
AEC 3033C Research and Business Writing in Agricultural and Life Sciences (WR) or
ENC 2210 Technical Writing 3
CHM 2045 General Chemistry 1, 3 credits, and
CHM 2045L General Chemistry 1 Laboratory, 1 credit
GE-B/P 4
Electives 8
Total 15
Semester 4 Credits
MCB 2000 Microbiology, 3 credits, and
MCB 2000L Microbiology Laboratory, 1 credit
GE-B 4
STA 2023 Introduction to Statistics
GE-M 3
Electives 5
Social and Behavioral Sciences
GE-S 3
Total 15
Semester 5 Credits
AEB 3133 Principles of Agribusiness Management 3
ANS 3006 Introduction to Animal Science, 3 credits, and
ANS 3006L Introduction to Animal Science Laboratory, 1 credit 4
ANS 3217C Equine Health Management 2
ANS 3440 Principles of Animal Nutrition 4
ANS 3934 Careers in the Livestock Industry 2
Total 15
Semester 6 Credits
AGR 4231C Forage Science and Range Management 4
ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals 4
ANS 3384C Genetics of Domestic Animals 3
Approved food and resource economics elective
3
Total 14
Summer Credits
ANS 4941 Full-Time Practical Work Experience in Animal Science 3-8
Total 3-8
Semester 7 Credits
ANS 3043 Growth and Development of Farm Animals 3
ANS 3405 Equine Nutrition and Feeding Management 2
Approved equine practicum elective 2
Approved food and resource economics elective
3
Electives 4
Total 14
Semester 8 Credits
ANS 3079L Relationship of Form to Function in Horses 2
ANS 4234 Horse Enterprise Management 2
ANS 4931 Senior Seminar 1
Approved equine practicum elective 1
Electives 7
Total 13
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Approved Equine Practicum Electives
Courses Credits
ANS 3239L Techniques in Equine Science 2
ANS 4212L Techniques in Farrier Science 1-2
ANS 4218L Horse Psychology and Training 3
ANS 4231 Practicum in Horse Management and Training Technique 1

ANS 4241L Intermediate Horse Training 2
ANS 4605 Animal and Products Evaluation 1
Approved Food and Resource Economics Electives
Courses Credits
AAEB 3122 Financial Planning for Agribusiness 3
AEB 3300 Agricultural and Food Marketing 3
AEB 3341 Selling Strategically 3
AEB 3450 Introduction to Natural Resource and Environmental Economics 3
AEB 4085 Agricultural Risk Management and the Law 3
AEB 4123 Agricultural and Natural Resource Law 3
AEB 4126 Agricultural and Natural Resource Ethics 3
AEB 4138 Advanced Agribusiness Management 3
AEB 4242 International Trade Policy in Agriculture 3
AEB 4342 Agribusiness and Food Marketing Management 3
AEB 4343 International Agribusiness Marketing 3
AEB 4424 Human Resources Management in Agribusiness 3
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Food Animal
Critical TrackingModel Semester Plan
Through proper selection of electives, students may emphasize beef, dairy or meat science. Career preparation can be strengthened through electives.

Critical Tracking
Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

Semester 1
Complete 2 of 6 critical-tracking courses, excluding labs: BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2045L, MAC 1147, STA 2023, and AEB 2014 or ECO 2013 or ECO 2023
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 2
Complete 1 additional critical-tracking course, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 3
Complete 2 additional critical-tracking courses, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 4
Complete 1 additional critical-tracking course, excluding labs
2.0 GPA required for all critical-tracking courses
2.0 UF GPA required
Semester 5
Complete all critical-tracking course, including labs
Back to Top
Model Semester Plan
To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester 1 Credits
BSC 2010 Integrated Principles of Biology 1, 3 credits, and
BSC 2010L Integrated Principles of Biology Laboratory 1, 1 credit
State Core GE-B/P 4
ENC 1101 Expository and Argumentative Writing

State Core GE-C; WR 3
MAC 1147 Precalculus: Algebra and Trigonometry
State Core GE-M 4
Humanities
State Core GE-H; D 3
Total 14
Semester 2 Credits
AEC 3030C Effective Oral Communication or
SPC 2608 Introduction to Public Speaking 3
BSC 2011 Integrated Principles of Biology 2, 3 credits, and
BSC 2011L Integrated Principles of Biology Laboratory 2, 1 credit
GE-B 4
ECO 2013 Principles of Macroeconomics
State Core GE-S 4
ENC 1102 Argument and Persuasion
GE-C 3
IUF 1000 What is the Good Life
GE-H 3
Total 17
Semester 3 Credits
AEC 3033C Research and Business Writing in Agricultural and Life Sciences (WR) or
ENC 2210 Technical Writing 3
CHM 2045 General Chemistry 1, 3 credits, and
CHM 2045L General Chemistry 1 Laboratory, 1 credit
GE-P 4
Electives 8
Total 15
Semester 4 Credits
MCB 2000 Microbiology, 3 credits, and
MCB 2000L Microbiology Laboratory, 1 credit
GE-B 4
STA 2023 Introduction to Statistics 1
GE-M 3
Electives 3
Social and Behavioral Sciences
GE-S 3
Total 13
Semester 5 Credits
AEB 3133 Principles of Agribusiness Management 3
ANS 3006 Introduction to Animal Science, 3 credits, and
ANS 3006L Introduction to Animal Science Laboratory, 1 credit 4
ANS 3440 Principles of Animal Nutrition4
ANS 3634C Meats 3
ANS 3934 Careers in the Livestock Industry 2
Total 16
Semester 6 Credits
AGR 4231C Forage Science and Range Management 4
ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals 4
ANS 3384C Genetics of Domestic Animals 3
ANS 3404C Food Animal Nutrition and Feeding 3
ANS 3613L Livestock and Meat Evaluation 2
Total 16
Summer Credits
ANS 4941 Full-Time Practical Work Experience in Animal Science 3-8
Total 3-8
Semester 7 Credits
ANS 3043 Growth and Development of Farm Animals 3
Approved electives 6
Approved food and resource economics elective
3
Total 12
Semester 8 Credits

ANS 4931 Senior Seminar 1
Approved electives 6
Approved food and resource economics elective 3
Electives 4
Total 14
Back to Top
Approved Electives
Courses Credits
ANS 2615C Meat Selection and Grading 2
ANS 3246L Beef Production Practicum 2
ANS 3250L Dairy Cattle Practicum 2
ANS 3251 Biology and Management of Dairy Cattle 2
ANS 4243 Beef Cow-Calf Management 5
ANS 4245C Beef Background and Feedlot Management 2
ANS 4604C Live Animal Evaluation 2
ANS 4605 Animal and Products Evaluation 1
ANS 4635C Meat Processing 3
ANS 4905 Problems in Animal Science 1-3
ANS 5312C Applied Ruminant Reproductive Management 3
FOS 4222 Food Microbiology 3-4
FOS 4222L Food Microbiology Laboratory 2
FOS 4722C Quality Control in Food Systems 3
Approved Food and Resource Economics Electives
Courses Credits
AEB 3122 Financial Planning for Agribusiness 3
AEB 3300 Agricultural and Food Marketing 3
AEB 3315 Futures Markets and Risk Management in Agriculture 3
AEB 3341 Selling Strategically 3
AEB 3450 Introduction to Natural Resource and Environmental Economics 3
AEB 4085 Agricultural Risk Management and the Law 3
AEB 4123 Agricultural and Natural Resource Law 3
AEB 4126 Agricultural and Natural Resource Ethics 3
AEB 4138 Advanced Agribusiness Management 3
AEB 4242 International Trade Policy in Agriculture 3
AEB 4309 Food Wholesaling and Retail Marketing 3
AEB 4342 Agribusiness and Food Marketing Management 3
AEB 4343 International Agribusiness Marketing 3
AEB 4424 Human Resources Management in Agribusiness 3
Proposed Curriculum Changes Changes to the Animal Biology specialization include: Verbiage to indicate all critical tracking courses must be completed with a minimum grade of C and attained within two attempts (including withdrawals); addition of upper division critical tracking requirements

Changes to the Equine and Food Animal specializations include: addition of upper division tracking requirements
Pedagogical Rationale/Justification Upper division critical tracking requirements were added to comply with new UF policy - courses were chosen based on logical sequencing of courses in all specializations (in order for students to progress within each specialization of the major, they should be completing courses identified as critical tracking as pre-requisites for the next semester).

The Animal Biology specialization is a pre-professional track, so additional requirements were added to address minimum grades required within a certain number of attempts to better reflect the rigor of the specialization as well as ensure students completing the specialization were qualified applicants and prepared for professional school applications and graduation in a timely fashion; previously a C grade was not required within two attempts (including withdrawals) - some courses identified as critical tracking did not require a C grade for the degree since a D- or better earns credit; additionally, students were making third attempts against recommendations of the department before switching majors since no policy in writing stating such
Impact on Enrollment, Retention, Graduation In the Food Animal and Equine Specializations, should really see no changes since the courses identified as upper division critical tracking are normally taken at the identified times and in the sequence suggested

In the Animal Biology specialization, requirements of obtaining a C or better in two attempts for critical

tracking across all semesters would likely force some students to change their major to a non-pre-professional major sooner and graduate in a more timely fashion; it should also help these students by encouraging them to not attempt a course for a third time and pay the third attempt fee, and should also help them avoid unnecessary attempts in their excess hours limit

Assessment Data Review Exit surveys given to graduating seniors that ask fundamental concepts, skills, and processes in Animal Sciences along with formal academic assessment exams in the Equine and Food Animal specializations; grades of students in the major for the courses identified as critical tracking for all specializations as well as attempts at pre-professional courses in the Animal Biology specialization

Academic Learning Compact and Academic Assessment Plan none

Animal Sciences

Potential careers for animal sciences majors include livestock production (beef cat swine, poultry and horses), livestock processing and utilization (meat, milk, perfo recreation), allied service industries (feed, health care, genetics, equipment, suppli promotion, finance and education) and preparation for graduate or veterinary m

College: Agricultural and Life Sciences
Degree: Bachelor of Science
Credits for Degree: 120
Specializations:
Animal Biology ; Equine ; Food Animal
Academic Learning Compact
Additional Information

Related Animal Sciences Programs

To graduate with this major, students must complete all university, college, and major requirements.

Overview

By choosing appropriate electives, students can earn a minor or a dual major in agribusiness management, exte agricultural operations management while completing the degree requirements for the equine or food animal sp

Animal Biology

Critical Tracking Model Semester Plan

This specialization is for students who wish to pursue professional or graduate programs. Students who plan to College of Veterinary Medicine in the equine, food animal or mixed-practice tracks are encouraged to select el sciences programs.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please nc requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites ma students. **All critical tracking courses must be completed with a minimum grade of C and attained withi (including withdrawals).**

Semester 1

Complete 1 of 5 critical-tracking courses, excluding labs: **BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2 2046/2046L, MAC 2311**

2.5 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 2

Complete 1 additional critical-tracking course, excluding labs

2.5 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 3

Complete 1 additional critical-tracking course, excluding labs

2.5 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 4

Complete 2 additional critical-tracking course, excluding labs

2.5 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 5

Complete all critical-tracking courses, including labs

Complete CHM 2210 with minimum grade of C attained within two attempts (including withdrawals)

Complete ANS 3006 and ANS 3006L

2.5 GPA required for all critical-tracking courses

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 6

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 7

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 8

Complete MCB 3020 and MCB 3020L

2.0 Upper Division GPA required

2.0 UF GPA required

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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. Th
completed by the terms as listed above in the Critical Tracking criteria.

*This semester plan represents an example progression through the major. Actual courses and course order ma
on the student's academic record and scheduling availability of courses. Prerequisites still apply.*

CHM 2045 General Chemistry 1 , *3 credits, and*		**4**
CHM 2045L General Chemistry 1 Laboratory , *1 credit*		
State Core GE-B/P		
ENC 1101 Expository and Argumentative Writing		3
State Core GE-C ; WR		
Elective		3
Humanities		3
State Core GE-H		
	Total	13
AEC 3030C Effective Oral Communication *or*		3
SPC 2608 Introduction to Public Speaking		
CHM 2046 General Chemistry 2 , *3 credits, and*		**4**
CHM 2046L General Chemistry 2 Laboratory , *1 credit*		

GE-P		
ENC 1102 Argument and Persuasion		3
GE-C		
IUF 1000 What is the Good Life		3
GE-H		
ECO 2013 Principles of Macroeconomics		4
State Core GE-S		
	Total	17
AEC 3033C Research and Business Writing in Agricultural and Life Sciences *(WR)*		3
or		
ENC 2210 Technical Writing		
BSC 2010 Integrated Principles of Biology 1 , *3 credits, and*		**4**
BSC 2010L Integrated Principles of Biology Laboratory 1 , *1 credit*		
GE-B		
Electives		9
	Total	16
BSC 2011 Integrated Principles of Biology 2 , *3 credits, and*		**4**
BSC 2011L Integrated Principles of Biology Laboratory 2 , *1 credit*		
GE-B		
MAC 2311 Calculus 1		**4**
State Core GE-M		
Social and Behavioral Sciences		3
GE-S; N		
Electives		4
	Total	15
ANS 3006 Introduction to Animal Science ***, 3 credits, and***		**4**
ANS 3006L Introduction to Animal Science Laboratory ***, 1 credit***		
ANS 3440 Principles of Animal Nutrition		4
CHM 2210 Organic Chemistry 1		**3**
Elective		3
	Total	14
ANS 3319C Reproductive Physiology and Endocrinology of Domestic Animals, 4 credits or		**3-4**
ANS 3043 Growth Development of Farm Animals, 3 credits		
CHM 2211 Organic Chemistry 2 , *3 credits, and*		5
CHM 2211L Organic Chemistry Laboratory , *2 credits*		
Approved elective		3
Elective		3

Elective		3
	Total	14-15

ANS 3043 Growth and Development of Farm Animals, 3 credits or	**3-4**
ANS 3319C Reproductive Physiology and Endocrinology of Domestic Animals, 4 credits	
BCH 3025 Fundamentals of Biochemistry *or*	4
‡BCH 4024 Introduction to Biochemistry and Molecular Biology	
STA 2023 Introduction to Statistics 1	3
‡*GE-M*	
Approved elective	3
Elective	3
Total	16-17

MCB 3020 Basic Biology of Microorganisms , *3 credits, and*	**4**
‡**MCB 3020L Laboratory for Basic Biology of Microorganisms , *1 credit***	
Approved elective	2
Electives	8
Total	14

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Approved Electives

Students must take a minimum of 8 credits of ANS courses in addition to the ANS courses identified above; 4 c and laboratory courses.

Lecture	
ANS 2002 The Meat We Eat	3
ANS 2615C Meat Selection and Grading	2
ANS 3251 Biology and Management of Dairy Cattle	2
ANS 3384C Genetics of Domestic Animals	3
ANS 3404C Food Animal Nutrition and Feeding	3
ANS 3405 Equine Nutrition and Feeding Management	2
ANS 3934 Careers in the Livestock Industry	2
Laboratory	
ANS 3217C Equine Health Management	2
ANS 3239L Techniques in Equine Science	2
ANS 3250L Dairy Cattle Practicum	2
ANS 3613L Livestock and Meat Evaluation	2
ANS 3634C Meats	3
ANS 4231 Practicum in Horse Management and Training Technique	1
ANS 4604C Live Animal Evaluation	2
ANS 4635C Meat Processing	3

Electives

Consider these pre-vet requirements

AGR 3303 Genetics , *3 credits, or*	3-4
‡ANS 3384C Genetics of Domestic Animals , *3 credits, or*	
‡PCB 3063 Genetics , *4 credits (GE-B)*	
PHY 2053 Physics 1 , *4 credits, and*	5

PHY 2053L Laboratory for Physics 1 , *1 credit (GE-P)*

PHY 2054 Physics 2 , *4 credits, and* 5

PHY 2054L Laboratory for Physics 2 , *1 credit (GE-P)*

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Equine

Critical Tracking Model Semester Plan

Career preparation can be strengthened through electives.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please nc requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites ma students.

Semester 1

Complete 2 of 6 critical-tracking courses, excluding labs: **BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2 STA 2023, and AEB 2014 or ECO 2013 or ECO 2023**

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 2

Complete 1 additional critical-tracking course, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 3

Complete 2 additional critical-tracking courses, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 4

Complete 1 additional critical-tracking course, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 5

Complete all critical-tracking courses, including labs

Complete ANS 3006 and ANS 3006L

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

2.0 Upper Division GPA required

Semester 6

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 7

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 8

Complete ANS 4931 and ANS 4941

2.0 Upper Division GPA required

2.0 UF GPA required

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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. Th completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order ma on the student's academic record and scheduling availability of courses. Prerequisites still apply.

BSC 2010 Integrated Principles of Biology 1 *, 3 credits, and*		**4**
BSC 2010L Integrated Principles of Biology Laboratory 1 *, 1 credit*		
State Core GE-B/P		
MAC 1147 Precalculus: Algebra and Trigonometry		**4**
State Core GE-M		
ENC 1101 Expository and Argumentative Writing		3
State Core GE-C ; WR		
Humanities		3
State Core GE-H ; D		
	Total	14
AEC 3030C Effective Oral Communication *or*		3
SPC 2608 Introduction to Public Speaking		
BSC 2011 Integrated Principles of Biology 2 *, 3 credits, and*		**4**
BSC 2011L Integrated Principles of Biology Laboratory 2 *, 1 credit*		
GE-B		
ECO 2013 Principles of Macroeconomics		**4**
State Core GE-S		
ENC 1102 Argument and Persuasion		3
GE-C		
IUF 1000 What is the Good Life		3
GE-H		
	Total	17
AEC 3033C Research and Business Writing in Agricultural and Life Sciences *(WR)*		3
or		
ENC 2210 Technical Writing		
CHM 2045 General Chemistry 1 *, 3 credits, and*		**4**
CHM 2045L General Chemistry 1 Laboratory *, 1 credit*		
GE-B/P		

Electives	8
Total	15

MCB 2000 Microbiology , *3 credits, and*	4
MCB 2000L Microbiology Laboratory , *1 credit*	
GE-B	
STA 2023 Introduction to Statistics	**3**
GE-M	
Electives	5
Social and Behavioral Sciences	3
GE-S	
Total	15

AEB 3133 Principles of Agribusiness Management	3
ANS 3006 Introduction to Animal Science , *3 credits, and*	**4**
ANS 3006L Introduction to Animal Science Laboratory , *1 credit*	
ANS 3217C Equine Health Management	2
ANS 3440 Principles of Animal Nutrition	4
ANS 3934 Careers in the Livestock Industry	2
Total	15

AGR 4231C Forage Science and Range Management

ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals, 4 credits or

ANS 3043 Growth and Development of Farm Animal, 3 credits

ANS 3384C Genetics of Domestic Animals

Approved food and resource economics elective

Tota

ANS 4941 Full-Time Practical Work Experience in Animal Science	**3-8**
Total	3-8

ANS 3043 Growth and Development of Farm Animals, 3 credits or	**3-4**
ANS 3319C Reproductive Physiology and Endocrinology, 4 credits	
ANS 3405 Equine Nutrition and Feeding Management	2
Approved equine practicum elective	2
Approved food and resource economics elective	3
Electives	4
Total	14-15

ANS 3079L Relationship of Form to Function in Horses	2
ANS 4234 Horse Enterprise Management	2
ANS 4931 Senior Seminar	**1**
Approved equine practicum elective	1
Electives	7

Total	13

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Approved Equine Practicum Electives

ANS 3239L Techniques in Equine Science	2
ANS 4212L Techniques in Farrier Science	1-2
ANS 4218L Horse Psychology and Training	3
ANS 4231 Practicum in Horse Management and Training Technique	1
ANS 4241L Intermediate Horse Training	2
ANS 4605 Animal and Products Evaluation	1

Approved Food and Resource Economics Electives

AAEB 3122 Financial Planning for Agribusiness	3
AEB 3300 Agricultural and Food Marketing	3
AEB 3341 Selling Strategically	3
AEB 3450 Introduction to Natural Resource and Environmental Economics	3
AEB 4085 Agricultural Risk Management and the Law	3
AEB 4123 Agricultural and Natural Resource Law	3
AEB 4126 Agricultural and Natural Resource Ethics	3
AEB 4138 Advanced Agribusiness Management	3
AEB 4242 International Trade Policy in Agriculture	3
AEB 4342 Agribusiness and Food Marketing Management	3
AEB 4343 International Agribusiness Marketing	3
AEB 4424 Human Resources Management in Agribusiness	3

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Food Animal

Critical Tracking Model Semester Plan

Through proper selection of electives, students may emphasize beef, dairy or meat science. Career preparation through electives.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please nc requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites ma students.

Semester 1

Complete 2 of 6 critical-tracking courses, excluding labs: **BSC 2010/2010L, BSC 2011/2011L, CHM 2045/2 STA 2023, and AEB 2014 or ECO 2013 or ECO 2023**

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 2

Complete 1 additional critical-tracking course, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 3

Complete 2 additional critical-tracking courses, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 4

Semester 4

Complete 1 additional critical-tracking course, excluding labs

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

Semester 5

Complete all critical-tracking courses, including labs

Complete ANS 3006 and ANS 3006L

2.0 GPA required for all critical-tracking courses

2.0 UF GPA required

2.0 Upper Division GPA required

Semester 6

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 7

Complete ANS 3043 or ANS 3319C

2.0 Upper Division GPA required

2.0 UF GPA required

Semester 8

Complete ANS 4931 and ANS 4941

2.0 Upper Division GPA required

2.0 UF GPA required

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Model Semester Plan

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*This semester plan represents an example progression through the major. Actual courses and course order ma
on the student's academic record and scheduling availability of courses. Prerequisites still apply.*

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BSC 2010L Integrated Principles of Biology Laboratory 1 , *1 credit*	
State Core GE-B/P	
ENC 1101 Expository and Argumentative Writing	3
State Core GE-C ; WR	
MAC 1147 Precalculus: Algebra and Trigonometry	**4**
State Core GE-M	
Humanities	3
State Core GE-H ; D	
Total	14
AEC 3030C Effective Oral Communication *or*	3
SPC 2608 Introduction to Public Speaking	
BSC 2011 Integrated Principles of Biology 2 , *3 credits, and*	**4**
BSC 2011L Integrated Principles of Biology Laboratory 2 , *1 credit*	

GE-B

ECO 2013 Principles of Macroeconomics **4**

State Core GE-S

ENC 1102 Argument and Persuasion 3

GE-C

IUF 1000 What is the Good Life 3

GE-H

Total 17

AEC 3033C Research and Business Writing in Agricultural and Life Sciences *(WR)* 3

or

ENC 2210 Technical Writing

CHM 2045 General Chemistry 1 *, 3 credits, and* **4**

CHM 2045L General Chemistry 1 Laboratory *, 1 credit*

GE-P

Electives 8

Total 15

MCB 2000 Microbiology *, 3 credits, and* 4

MCB 2000L Microbiology Laboratory *, 1 credit*

GE-B

STA 2023 Introduction to Statistics 1 **3**

GE-M

Electives 3

Social and Behavioral Sciences 3

GE-S

Total 13

AEB 3133 Principles of Agribusiness Management 3

ANS 3006 Introduction to Animal Science ***, 3 credits, and*** **4**

ANS 3006L Introduction to Animal Science Laboratory ***, 1 credit***

ANS 3440 Principles of Animal Nutrition 4

ANS 3634C Meats 3

ANS 3934 Careers in the Livestock Industry 2

Total 16

AGR 4231C Forage Science and Range Management 4

ANS 3319C Reproductive Physiology and Endocrinology in Domestic Animals, 4 credits or **3-4**

ANS 3043 Growth and Development of Farm Animals, 3 credits

ANS 3384C Genetics of Domestic Animals 3

ANS 3404C Food Animal Nutrition and Feeding 3

ANS 3613L Livestock and Meat Evaluation	2
Total	15-16

ANS 4941 Full-Time Practical Work Experience in Animal Science	**3-8**
Total	3-8

ANS 3043 Growth and Development of Farm Animals, 3 credits or ANS 3319C Reproductive Physiology and Endocrinology, 4 credits	**3-4**
Approved electives	6
Approved food and resource economics elective	3
Total	12-13

ANS 4931 Senior Seminar	**1**
Approved electives	6
Approved food and resource economics elective	3
Electives	4
Total	14

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Approved Electives

ANS 2615C Meat Selection and Grading	2
ANS 3246L Beef Production Practicum	2
ANS 3250L Dairy Cattle Practicum	2
ANS 3251 Biology and Management of Dairy Cattle	2
ANS 4243 Beef Cow-Calf Management	5
ANS 4245C Beef Background and Feedlot Management	2
ANS 4604C Live Animal Evaluation	2
ANS 4605 Animal and Products Evaluation	1
ANS 4635C Meat Processing	3
ANS 4905 Problems in Animal Science	1-3
ANS 5312C Applied Ruminant Reproductive Management	3
FOS 4222 Food Microbiology	3-4
FOS 4222L Food Microbiology Laboratory	2
FOS 4722C Quality Control in Food Systems	3

Approved Food and Resource Economics Electives

AEB 3122 Financial Planning for Agribusiness	3
AEB 3300 Agricultural and Food Marketing	3
AEB 3315 Futures Markets and Risk Management in Agriculture	3
AEB 3341 Selling Strategically	3
AEB 3450 Introduction to Natural Resource and Environmental Economics	3
AEB 4085 Agricultural Risk Management and the Law	3
AEB 4123 Agricultural and Natural Resource Law	3
AEB 4126 Agricultural and Natural Resource Ethics	3
AEB 4138 Advanced Agribusiness Management	3
AEB 4242 International Trade Policy in Agriculture	3
AEB 4309 Food Wholesaling and Retail Marketing	3
AEB 4342 Agribusiness and Food Marketing Management	3
AEB 4343 International Agribusiness Marketing	3

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Related Animal Sciences Programs

Combined Degree

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