



NORTH CAROLINA AGRICULTURAL
AND TECHNICAL STATE UNIVERSITY

New Accelerated Bachelors to Masters Academic Pathway Request to Establish

Accelerated Bachelor's to Master's Pathway Guidelines

Academic departments may allow baccalaureate-seeking students to be admitted early to a master's degree program and have 9-12 credit hours of graduate coursework applied toward both the bachelor's and master's degree (i.e., double counted). See the [Policy](#) in the University Catalog for information on minimum admission and graduation requirements for students seeking to complete an accelerated degree program.

Approval Workflow:

Departments who wish to promote an accelerated pathway and allow students to double count graduate credit toward both degrees must seek prior Department and College level approval using the ABM Request to Establish Form. Departments must also notify the UAPCC by submitting the completed Request to Establish before submission to the Senior Vice Provost for Academic Affairs.

Workflow	Approval
Department	X
College	X
Graduate College	X
UAPCC	Review Only
VPUE	X
SVCAA	X
Provost	X

Complete the following:

1. Please fill out the [Request to Establish](#) form to offer an accelerated bachelor's/master's degree pathway.
2. Signature of approval from Graduate College
3. UAPCC signature of acknowledgment (checklist)
4. Signature of approval from VPUE (catalog)
5. Signature of approval from SVPAA
6. Signature of approval from Provost
7. Send an approved copy to University Registrar, OSPIE, VPUE, Graduate College
8. Department to use internal forms to track student applications and tracking process. Withdrawals from the ABM pathway adhere to the ABM policy.
9. ABM pathways approved by the Provost by March 1st will become effective the following fall term.

Checklist for UAPCC

- Does the undergraduate curriculum meet the 120 credit hour threshold?
- Assurance that the undergraduate curriculum is not modified from the approved and published bachelor's degree curriculum (match, and verify curriculum with what's in the bulletin)?
- Are Dean and Chair signatures obtained?
Substitutions should not exceed 12 credit hours. Do the substitutions exceed 12 credit hours in Section II.a.?
- Do the materials presented in Section II.b. represent a 5-semester plan for completion of the master's degree?

The next pages provide an example pathway proposal

NC A&T State University
College of Agriculture And Environmental Sciences

DEPARTMENT OF ANIMAL SCIENCES
AGRICULTURAL AND ENVIRONMENTAL SYSTEMS –CONCENTRATION:
INTEGRATED ANIMAL HEALTH, MS

I. Student Requirements

The Accelerated Bachelors / Master's (ABM) degree program permits the completion of both the BS and MS degrees in approximately 5 years. The program is based on admitting well-qualified students in their junior year and counting twelve (12) credit hours of course work for both the BS and the MS degrees.

Student Eligibility Requirements

1. Students must have completed between 75 and 90 credit hours in their undergraduate programs, including credits earned from advanced placement.
2. Transfer students must have completed a minimum of two semesters as a full-time student at NCA&T, a minimum of 24 credit hours, in addition to the 75 to 90 hours as previously stated.
3. Students must have a minimum accumulated grade point average (GPA) of 3.25/4.0 at NCA&T at the time of admission into the ABM degree program.

Application to the ABM Program

A prospective student who meets the eligibility requirements for the ABM program must set up a meeting with his/her undergraduate advisor and the graduate program coordinator to develop a Plan of Study for her/his bachelor's and master's degree programs. Before acceptance into an ABM program can be finalized, a student must submit:

- a. The standard application for admission to the Graduate College;
- b. A Plan of Study for the graduate degree that also indicates the graduation date for the master's degree. The Plan of Study must indicate the following: (i) a maximum of 12 graduate credit hours that will also count towards the undergraduate degree, (ii) a maximum of six (6) additional graduate credit hours that may be taken as an undergraduate student that will not be counted towards the bachelor's degree, (iii) courses that will be taken after matriculating into the graduate program, and (iv) the graduation date for the master's degree that meets the time limit for the ABM program (i.e. obtaining a thesis or non-thesis master's degree in the same field within 18 months of completing the bachelor's degree).
- c. Any changes to the ABM Plan of Study must be submitted in writing and approved by the chairperson and graduate program coordinator and by the dean of the Graduate College.

Requirements for Participation and Graduation

1. Students must complete the bachelor's degree prior to entering the master's program. Students in the ABM may not elect to by-pass the bachelor's degree.
2. Students must receive a grade of B (3.00/4.00) or better in each of the double-counted graduate level (600 level) courses.
3. Students must complete the master's degree within 18 months from the completion of the bachelor's degree for a non-thesis master's degree.

Continuing Eligibility

1. It is the responsibility of the student to recognize his/her eligibility status.
2. If a student completes the bachelor's degree requirements with an accumulated GPA of less than 3.25/4.0, he/she automatically loses the privilege of continuing in the ABM.
3. Failure to complete the degree with course/project option in 12 months or thesis option in 18 months voids the application of the double counted class hours to the Master's degree.

Withdrawal

A student may, at any time, withdraw from the ABM program by informing her/his undergraduate advisor and graduate program coordinator in writing. A copy of this request to withdraw must be sent to the Graduate College for approval. A student who either withdraws or loses eligibility to continue in the program will not be able to use any graduate courses towards the bachelor's degree. However, a maximum of six credit hours of graduate courses may be used towards another master's degree with the approval of the graduate program coordinator, department chair, and the dean of the Graduate College

II. Pathway List of Allowable Courses

a. Allowable Course Substitutions

Undergraduate Course	Equivalent Graduate Course
CAES Undergraduate Elective	AGRI 604
ANSC/LASC Undergraduate Elective	ANSC Graduate Elective
ANSC/LASC Undergraduate Elective	ANSC Graduate Elective
ANSC/LASC Undergraduate Elective	ANSC Graduate Elective

b. Course Sequence

Senior Year First Semester

CHEM 251-Elementary Biochemistry	2
CHEM 252-Elementary Biochemistry Lab	1
PHYS 226-College Physics I	3
PHYS 236-College Physics I Lab	1
SPCH 250-Speech Fundamentals	3
LASC/ANSC Graduate Elective ²	3
Major Elective ¹	3
Total Credit Hours:	16

Senior Year Second Semester

LASC 461-Physiology of Domestic Animals	3
ANSC 437 -Biotechnology w/Lab	3

ANSC 435 (Capstone)	3
LASC/ANSC Graduate Elective ²	3
AGRI 604	3
LASC/ANSC Graduate Elective ²	3
Total Credit Hours:	18

Graduate School First Semester

AGRI 700	3
CHEM 651	3
LASC/ANSC Graduate Elective ²	3
Total Credit Hours:	9

Graduate School Last Semester

AGRI 780	3
ANSC 796	3
LASC/ANSC Graduate Elective ²	3
Total Credit Hours:	9

NC A&T State University
College of Agriculture And Environmental Sciences
DEPARTMENT OF ANIMAL SCIENCES
UNDERGRADUATE DEGREE CURRICULUM
ANIMAL SCIENCE MAJOR

Fall Semester – Year 1		Spring Semester – Year 1	
ENGL 100-Ideas and their Expressions I	3	ENGL 101-Ideas and their Expressions II	3
LASC 161-Intro to Lab Ani, Ani. Ind. & Ani Sci. Orient.	1	MATH 112-Calculus for Business and Tech	4
LASC 162-Intro to Animal and Laboratory Ani Sci	3	ANSC 163-Animal & Lab Animal Science w/lab	3
MATH 111*-College Algebra & Trigonometry*	4	BIOL 100 or 101-Biological Sci. or Concepts in Bio	4
FRST 101 – College Success	1	HIST 106-African American History to 1877	3
PSYC 101-General Psychology	3		
Total Credit Hours:	15	Total Credit Hours:	17
Fall Semester – Year 2		Spring Semester – Year 2	
CHEM 106-General Chemistry VI	3	CHEM 107-General Chemistry VII	3
CHEM 116-General Chemistry Lab	1	CHEM 117-General Chemistry VII Lab	1

HIST 130 - The Contemporary Global Experience	3	ANSC 441-Disease Mgmt. for Livestock and Poultry	3
ANSC 214-Agricultural Genetics	3	MATH 224-Intro Probability & Statistics	3
LASC 261-Medical Terminology	3	ANSC 212-Feeds and Feeding	3
ANSC 413-Sanitation & Diseases of Farm Animals	2	HPED elective	3
Total Credit Hours:	15	Total Credit Hours:	16
Fall Semester – Year 3		Spring Semester – Year 3	
CHEM 221-Organic Chemistry I	3	CHEM 222-Organic Chemistry II	3
CHEM 223-Organic Chemistry I Lab	1	CHEM 224-Organic Chemistry II Lab	1
ANSC 411-Livestock Production	3	BIOL 220- Microbiology or BIOL 221 Gen. Microbiology 4	
ANSC 411-Livestock Production Lab	0	ANSC 451-Poultry Production	3
LASC 459-Integrated Anatomy	4	ANSC 451-Poultry Production Lab	0
LASC 459-Integrated Anatomy Lab	0	LASC 460-Microscopic Anatomy	3
PHYS 225-College Physics	3	LASC 460-Microscopic Anatomy Lab	0
PHYS 235-College Physics Lab	1	ANSC 416-Swine Production w/Lab	3
ANSC Elective	3		
Total Credit Hours:	18	Total Credit Hours:	17
Fall Semester – Year 4		Spring Semester – Year 4	
CHEM 251-Elementary Biochemistry	2	LASC 461-Physiology of Domestic Animals	3
CHEM 252-Elementary Biochemistry Lab	1	ANSC 437 -Biotechnology w/Lab	3
PHYS 226-College Physics I	3	ANSC 435 (Capstone)	3
PHYS 236-College Physics I Lab	1	LASC/ANSC Elective ²	3
SPCH 250-Speech Fundamentals	3	LASC/ANSC Elective ²	3
LASC/ANSC Elective ²	3	LASC/ANSC Elective ²	3
Major Elective ¹	3		
Total Credit Hours:	16	Total Credit Hours:	18

Total Credit Hours:
Undergraduate = 120,
Graduate = 30 General
Education Requirements are indicated in bold font

*Math 111 (SAT Math Score 520-570, ACT Math Score 21-23)-Otherwise students of 480-510 will take Math 103 and 104 and then proceed to Math 112.

¹ The student in consultation with advisor should choose major and other electives

² The student in consultation with the major professor student may register for any ANSC/LASC 600 level course

³ The student in consultation with the major professor may register for any ANSC/LASC 600 or 700 level course

Course options include: LASC 660, ANSC 611, ANSC 624, ANSC 632, ANSC 637, ANSC 641, ANSC 701, ANSC 702, ANSC 708, ANSC 712, ANSC 713, ANSC 723, ANSC 782

**NC A&T State University
College of Agriculture And Environmental Sciences**

DEPARTMENT OF ANIMAL SCIENCES

**AGRICULTURAL AND ENVIRONMENTAL SYSTEMS- NATURAL
RESOURCES AND ENVIRONMENT, MS**

Graduate Degree Curriculum

Graduate Coordinator: Guochen Yang **Email:** yangg@ncat.edu **Phone:** (336)285-4853

Department Chair: Gregory Goins **Email:** gagoins@ncat.edu **Phone:** (336)285-2191

The Master of Science in Agricultural and Environmental Systems – Natural Resources and Environmental Systems concentration provides a foundation in the fundamental biological and biochemical sciences related to natural and renewable resources, bioprocessing, food systems sustainability including the underlying principles of horticulture, agroecology, environmental remediation and protection, plant and soil health, mushroom science and biotechnology. Thesis or project research is a degree requirement in one of these knowledge areas under the direction of a graduate faculty member. Graduates are trained to be analytical in their thinking and applied in their performance with an understanding of transdisciplinary science.

Additional Admission Requirements

- Sound academic preparation in basic sciences (e.g. Biology, Chemistry and Physics)
- Undergraduate Math (Algebra and Calculus)

Program Outcomes:

- The production of advanced agricultural scholars that obtain professional and leadership roles with agricultural and environmental related entities
- Individuals that pursue doctoral studies and the valuable scholarly works produced by graduates of the program, through thesis and capstone project endeavors.

Degree Requirements

Total credit hours: 30

- Core courses (9 credit hours): AGRI 604/ABM 705, AGRI 700, 780

Thesis option

- Select 15 credit hours from: NARS; AGRI; HORT; SLSC; ENV5 with approval of advisor
- Thesis (NARS 797: 6 credits)
- Pass thesis defense

Project option

- Select 18 credit hours from: NARS; AGRI; HORT; SLSC; ENV5 with approval of advisor
- Project (NARS 796: 3 credits)



**NORTH CAROLINA AGRICULTURAL
AND TECHNICAL STATE UNIVERSITY**

New Accelerated Bachelors to Masters Academic Pathway Request to Establish

College _____

Department _____

ABM Pathway Title (e.g. ABM in Ag. Education)

Reviewed and Approved By:

Department Chair

Print Name: _____ Signature: _____

Dean of College

Print Name: _____ Signature: _____

Graduate College Dean

Print Name: _____ Signature: _____

Senior Vice Provost for Academic Affairs

Print Name: _____ Signature: _____

New Accelerated Bachelors to Masters Academic Pathway Process

New Accelerated Bachelors to Masters Academic Pathways are initiated and developed by faculty members in accordance with the Accelerated Bachelors Masters Program [Policy](#). The Request to Establish a New Accelerated Bachelors to Masters Academic Pathway must be reviewed and approved by the appropriate individuals listed above before submission to the Senior Vice Provost for Academic Affairs.

I. Student Requirements

- a. Student Eligibility
- b. Acceptance Application
- c. Requirements for Participation and Graduation
- d. Continuing Eligibility
- e. Withdrawal

II. Pathway List of Allowable Courses

- a. Allowable Course Substitutions

Provide a list of allowable course substitutions in the table below.

Students approved to enter the ABM Pathway may substitute up to four (4) course limit, graduate-level undergraduate courses according to the following schedule.

Undergraduate Course	Equivalent Graduate Course

NOTE: The BS portion of this program has already been approved by the University. In all cases, the program and University requirements will be satisfied based on the four-year curriculum.

- b. Provide a plan of study showing the sequence of courses to be taken each semester. List courses by title and number and indicate those that are required.

III. Undergraduate Degree Curriculum

- a. Provide a copy of the undergraduate curriculum guide

IV. Graduate Degree Curriculum

- a. Provide a copy of the graduate curriculum guide