

University Courses & Curricula Committee 2016-2017

March 15th, 2017
Talley Student Union 4140
12:45pm-2:45pm

Call to Order 12:45pm

- Welcome and Instructions, Chair Andy Nowel
- Remarks from Associate Vice Provost, Dr. Barbara Kirby
- Approval of UCCC February 22th, 2017 Minutes
- Course and Curricular Business

New Business

Consent Agenda		
Action	Type	Notes
ACC 200 Introduction to Managerial Accounting	Revision	Revisions: Prerequisites
BUS 459 Business Analytics Practicum	Revision	Revisions: Title, slight description
CSC 492 Senior Design Project	Revision	Revisions: Restrictive statement
HESE 300 Emergency Medical Technician	Drop	Dropping course.
M 399 International Business Dual Degree Student Professional Internship in Management	Revision	Revisions: Description and Restrictive statement
Outdoor Leadership Minor 24OLM	Revision	Adding minimum GPA requirement
11PBSM Plant Biosecurity and Regulatory Science minor	Discontinue	No students enrolled in Minor for past 6 years

Poole College of Management			
Presenter	Reviewers	Action	Type
Podurgal	Hergeth, Fath, Despain	BUS 429 Financial Modeling	New Course.
Podurgal	Hessling, Banks, Driscoll	Business Management Finance Concentration	Revisions
Podurgal	Hergeth, Driscoll, Beller	Business Analytics Honors Program	Revisions

University College			
Presenter	Reviewers	Action	Type
Fath	Podurgal, Despain, Ferguson	HESM 370 Foundations of Sport Coaching and Instruction	New Course
Beller	Hergeth, Ferguson, Hessling	Health Minor 24HLTHM	Revisions: Adding minimum GPA requirement and removing an elective course

College of Sciences			
Presenter	Reviewers	Action	Type
Banks	Lindsay, Taryp, Orphanides	BIO 230 The Science of Studying Dinosaurs	New Course
Banks	Beller, Young, Podurgal	PY 495 Special Topics in Physics	New Course
Klesath	Taryp, Trivedi, Lindsay	Biological Sciences (BS): Molecular, Cellular, & Developmental Biology 17BIOSCBS-17BIOSCMCD	Revisions

College of Textiles			
Presenter	Reviewers	Action	Type
Hergeth	Orphenides, Klesath, Fath	Fashion and Textile Management Degree (18FTMBS) 18FTMBMM and 18FTMFDP	Revisions

College of Agriculture and Life Sciences			
Presenter	Reviewers	Action	Type
Trivedi	Hergeth, Lindsay, Rieder	ENT 203 An Introduction to the Honey Bee and Beekeeping	Revisions: SLO, offering, grading
Trivedi	Despain, Lindsay, Banks	HS 495 Experimental Courses in Horticultural Science	Revisions: Adding Graded option
Tarpy	Lindsay, Klesath, Beller	PO/FM 426 Feed Manufacturing Technology Laboratory	New Course.

College of Humanities and Social Sciences			
Presenter	Reviewers	Action	Type
Driscoll	Ferguson, Hergeth, Beller	FLF 212 French: Language, Culture, and Technology	Revisions: SLO, grading, abbreviated title, offering
Despain	Rieder, Tarpy, Hessling	SW 290 The Development of Social Welfare and Social Work in the U.S.	Revisions: SLO, grading, abbreviated title

College of Natural Resources			
Presenter	Reviewers	Action	Type
Lindsay	Despain, Klesath, Fath	Forest Management Minor 15FGM	Revisions

SLO = Student Learning Outcomes

Discussion: Feedback for Syllabus Availability.

Notes:

- All linked course actions are viewable in CIM.
- To view actions, please click on the hyperlink. You may need to use your Unity ID to log in.
- If you experience issues logging in, please go to <https://next-catalog.ncsu.edu/courseadmin/> and type the course prefix and number into the search bar.

University Courses and Curricula CommitteeFebruary 22nd, 2017
Talley Student Union 4140
Call to Order: 12:45 pm

Members Present: Chair Andy Nowel, Amanda Beller, Scott Despain, Catherine Driscoll, Mian Wu, Elizabeth Fath, Andreas Orphanides, Kathleen Rieder, Helmut Hergeth, Edwin Lindsay, Richard Podurgal, Daniel Harper, Greg Young, Marta Klesath, Peter Hessling, David Tarpy, Shweta Trivedi, Scott Ferguson,

Members Absent: Michael Robinson, Alton Banks, Steven Peretti,

Guest: Jennifer Capps, Haley Huie, Jane Lubischer, Genia Sklute, Gary Blank, Jason DeRousie

Ex-Officio Members Present: Li Marcus, Lexi Hergeth, Barbara Kirby, Charles Clift, Rebecca Swanson, Kyle Pysher

WELCOME AND INTRODUCTIONS

- **Remarks from Chair Andy Nowel-** Introduced guests and reminded the committee to chat with colleges and focus points for reviewing.
- **Remarks from Associate Vice Provost Dr. Barbara Kirby-** Discussed comments from faculty senate regarding the rolls of UCCC and CUE and provided examples of how the reviews from UCCC affect the reviews from CUE. She also informed the committee of the taskforce updates and agenda updates. A recommendation from the USD taskforce committee should be ready for review in the next few weeks.
- **Approval of the Minutes from February 8th 2017 – *Approved Unanimously***
 - Discussion: Member Daniel Harper moved to approve. Minutes from the previous meeting were presented and approved without further discussion.

OLD BUSINESS

- **FOR 408/(508) Hardwood Management (returning from November 2, 2016 meeting [tabled])-** Approved Pending
Discussion: Member Scott Despain presented the returning course. Gary Blank shared information on updates that were made since the last meeting and explained the requisites for the undergraduate or graduate levels. Kyle Pysher from Registration and Records confirmed the requisites are codable. Presenter explained the past topics of concern and how they have been updated. Member pointed out the course topic schedule from the syllabus is shorter than what is listed in CIM. Members discussed approving pending the addition of the course schedule to the full 16 week schedule. Member brought attention to the attendance policy statement stating that students are expected to attend all sessions which is contradicting the participation rubric that indicates excused absences are acceptable. Member pointed out the participation section of the syllabus that weekly exercises listed that are not listed in the grading evaluation methods. Member explained how representation for the course being present helps. Guest explained that the faculty member teaching evaluates students on participation, attendance being important because there isn't a way to participate without being present. Members suggested making a note to see the participation rubric. Student senate member indicated from the student perspective that the attendance and participation is clear from his perspective. Approved pending the clarification of attendance and participation rubric and the schedule.

NEW BUSINESS

- **Consent Agenda—*Approved Unanimously***
Discussion: Member Scott Despain moved to approve. No further discussion.
- **MSE 300 Structure of Materials at the Nanoscale- *Approved Pending.***
Discussion: Member Scott Ferguson presented the course. Member asked for some clarity on the grading rubric indicating homework being 40% "to be determined by the instructor" and explained that a student may want an estimation of how many homework assignments will make up the 40%. Presenter explained that the instructor may not have wanted to provide an exact number of assignments. Members discussed using an approximation or range instead of an exact number and may have cut a few corners with the syllabus by using a preexisting syllabus. Li Marcus explained the information in CIM will show what is being changed through color coding. Member brought up the friendly suggestion to include assignments focusing on communication to increase communication skills in engineering students. Approved pending clarification on number of homework assignments.

- **BIO 240 Principles of Human Anatomy & Physiology (A): Nervous, Skeletal, Muscular, & Digestive Systems–Approved**
Discussion: Member Marta Klesath presented the course. No further discussion.
- **BIO 245 Principles of Human Anatomy & Physiology (B): Endocrine, Cardiovascular, Respiratory & Renal Systems- Approved Unanimously**
Discussion: Member Marta Klesath presented the course. Members discussed the seven major methods of assessment. Presenter explained the content of the final projects will be from the assignments throughout. Member suggested the saved name in the syllabus should reflect the course name.
- **BSC 295 Special Topics in Biological Sciences–Approved Unanimously**
Discussion: Member Marta Klesath presented the curricula action. Members made the friendly suggestion to change the time frame for late assignment grade deduction from “the first 48 “ to “24-48” hours.
- **BSC 303 Transfer Student Transitions- Approved Unanimously**
Discussion: Member Marta Klesath presented the course. Members made the same friendly suggestion as BSC 295 syllabus. Member asked if the statement in the syllabus indicating that students with more than 3 absences will fail the course. Members discussed the statement is used for many courses within the college of sciences. Members explained if a student is absent for more than 3 courses they will not have the information or participation necessary for the course. Dr. Barbara Kirby explained the University policy on absences and the instructor’s ability to make a judgment call on individual students. Dr. Kirby also said the attendance policy will be reviewed at by the office of undergraduate courses and curricula in academic standards.
- **BSC 495: Special Topics in Biological Sciences- Approved Unanimously**
Discussion: Member Marta Klesath presented the course. No further discussion.
- **BA Biological Sciences 17BIOBA - Approved Unanimously**
Discussion: Member Marta Klesath presented the curricula action. Members discussed what “newly discovered courses” means, presenter explained these are either existing or new courses being added to update the curricula. Member asked if the courses effect other curricula, guest said the associate deans were informed. Guest announced BIO 240 and BIO 245 will need to be marketed during enrollment because of the earlier changes to the prefixes.
- **Textile Technology Minor (18TTM)- Approved Unanimously**
Discussion: Member Helmut Hergeth presented the curricula action. No further discussion.
- **PSE 295 Special Topics in Paper Science & Engineering- Approved Unanimously**
Discussion: Member Scott Despain presented the course. No further discussion.
- **BUS 461- Approved Unanimously**
Discussion: Member Richard Podurgical presented the course. No further discussion.
- **BUS 465 Traditional and Digital Brand Promotion - Approved Unanimously**
Discussion: Member Richard Podurgical presented the course. No further discussion.
- **Accounting No Concentration 20ACCNC- Approved Unanimously**
Discussion: Member Richard Podurgical presented the curricula action. Guest Jason DeRussi explained the department is comfortable creating this concentration and the department has built in consultation so students do not take 9 electives unrelated to what the student would like to do after graduating. Member asked if internships could be advised electives. Guest responded that internships can be used as an elective but internships for credit need to be approved by the department.
- **Management First Year- Approved**
Discussion: Member Richard Podurgical presented the curricula action. Member asked if the GEP credits in the degree audit are in line with the old curricula. Guest explained the degree audit would be set up so they would be able to fill requirements with transfer credits and encourages choosing a major.

- **ANS 150 Introduction to Animal Science- Approved Unanimously**
ANS 151 Introduction to Animal Science Lab-
 Discussion: Member Shweta Trivedi moved to combine the two ANS courses in one motion and presented. Member made the friendly suggestion to include the rounding statement for grading and including the information that describes the grading in the syllabus in CIM. Li Marcus reminded the committee that the topics outline in CIM is not required if the attached syllabus provides the topic schedule. Member pointed out the point based and percentage and made the friendly suggestion to include the point value with percentages in the syllabus for clarity.

- **PO 215 Applied Avian and Aquaculture Nutrition- Approved Pending**
 Discussion Member David Tarpy presented the course. Friendly suggestion was made to change the font specification to a requirement of word count or other similar standard. Friendly suggestion to fix typo in the course structure section under Term Paper: "Literature cited must be in either Journal of Nutrition of Journal of Animal Science format. " to "Literature cited must be in either Journal of Nutrition in Journal of Animal Science format.". Member made the friendly suggestion to adjust the attendance. Friendly suggestion to adjust the wording "absence due to illness or death" to clarify the death of a family member. Member suggested fixing the title indicated in laboratory safety section at the top of page 4 in the syllabus. Approved pending clarity on attendance.

- **BS Agricultural Sciences- Approved Unanimously**
 Discussion: Member David Tarpy presented the curricula action. Member made the friendly suggestion to update EC 201, name should be changed to the current, accurate title.

- **EI 100 Entrepreneurial Thinking in the Albright Entrepreneurs Village- Approved Unanimously**
 Discussion: Member Amanda Beller presented the course. No further discussion.

- **HON 313 Reading Machines- Approved Unanimously**
 Discussion: Member Amanda Beller presented the course. Member made the friendly suggestion to shorten the catalog description. Li Marcus assured the committee OUCCAS and R&R will work together to insure the word/character counts for CIM and SIS are satisfied for the catalog description.

- **HON 340 Religion and Freedom- Approved Unanimously**
 Discussion: Member Elizabeth Fath presented the course.

- **MUS 210 Introduction to Popular Music: 1950s-1970s- Approved Unanimously**
MUS 211 Introduction to Popular Music: 1980s-present-
 Discussion: Member Elizabeth Fath moved to combine the two MUS actions to one action and presented the courses. No further discussion.

Discussion: Student Senate representative said the academics committee of the student senate has a deadline of March 14, 2017 to have contacted and get information from other colleges on syllabus availability.

Meeting adjourned at 2:08 pm

Respectfully submitted by Lexi Hergeth

**NORTH CAROLINA STATE UNIVERSITY
UNDERGRADUATE CURRICULUM ACTION FORM
Academic Minor**

DEPARTMENT(S):

Health & Exercise Studies

TYPE OF PROPOSAL:

New Minor: _____

TITLE OF THE MINOR:

Outdoor Leadership (24OLM)

Revision to Minor: X

Discontinuation: _____

PROPOSED EFFECTIVE DATE: Spring 2017

APPROVED EFFECTIVE DATE: _____

ATTACHMENTS INCLUDED:

1. Statement of Justification

The Department of Health and Exercise Studies is requesting a minimum overall GPA of 2.0 be added to the Outdoor Leadership minor. This is to ensure the quality of student learning and success.

2. Statement of Academic Minor Program Objectives

3. List of Courses constituting the Minor

Required Courses (11 credit hours)

- HESM/PRTM 214 Introduction to Adventure Education (3 cr)
- HESM/PRTM 215 Principles and Practices of Outdoor Leadership (3 cr)
- HESM 216 Backcountry Instruction Methodology (2 cr)
- HESM 280 Responding to Emergencies (2 cr)
- HESM 302 Practicum Experience in Outdoor Programs (1 cr) Prerequisites: HESM 214, 215, 216 and HESM 280 or equivalent, must have permission of the instructor

Elective Courses (at least 5 credit hours)

Select 5 courses from the following list:

- HESA 223 Lifeguard Training (2 cr)
- HESA 226 SCUBA (2 hours)
- HESA 227 Advanced SCUBA (2 cr)
- HESO 253 Orienteering (1 cr)
- HESO 255 Basic Canoeing (1 cr)
- HESO 257 Backpacking (1 cr)
- HESO 258 Basic Rock Climbing (1 cr)
- HESO 259 Intermediate Rock Climbing (1 cr)
- HESO 262 Whitewater Canoeing (1 cr)
- HESO 263 Whitewater Kayaking (1 cr)
- HESO 276 Whitewater Rafting (1 cr)
- HESO 277 Mountain Biking (1 cr)
- HESO 283 Mountaineering (1 cr)
- HESO 284 Sea Kayaking (1 cr)
- HESO 278 Fly Fishing (1 cr)

- HESO 281 Introduction to Challenge Course Programming (2 cr)

*NOTE: The Challenge Course Programming course cannot be applied towards the university physical education requirement.

4. **Catalog Description of Minor**

The Department of Health and Exercise Studies offers a minimum of 16-hour minor in Outdoor Leadership. It is designed for undergraduate students wishing to enhance their personal development and enjoyment of adventure-based programs and desiring to pursue careers as outdoor leaders. Students will develop a foundation of essential leadership skills and experience through course work focusing on outdoor skills and leadership training. Students will also have an opportunity to apply theory to practice through a practicum.

The minor will require a minimum of 9 hours plus the practicum experience taken at North Carolina State University.

5. **Administration of the Minor (Contact information for Administrator of the Minor)**

Terry Dash

Senior Lecturer

2009C Carmichael Gymnasium

919-515-1392

Terry_dash@ncsu.edu

6. **Requirements for Admission and Completion of the Minor**

Requirements for Completion of Minor

- Complete a minimum of 16 hours of coursework in the following areas.
- A grade of "C-" or better required in each course.
- A minimum overall GPA of 2.0 in the minor.
- There are 5 required courses, totaling 11 semester hours.
- The remaining credit hours consist of 5 elective courses selected from a list of outdoor specific offerings.
- A student enrolled in the Outdoor Leadership minor can expect to incur program costs up to \$500.00 or more. Costs will vary and are dependent on the courses(s) in which students are enrolled. Program costs help defray program expenses including guides, transportation, food, campground fees, and specialized equipment rental when required.
- A maximum of TWO (2) course may be used (double-counted) towards both departmental major requirements and minor requirements.

Admissions

Any student seeking this minor must consult with minor coordinator to discuss a plan of work for the minor. The Application for Minor must be submitted to the student's major advisor as soon as possible AND to the college no later than the end of the registration prior to the last semester before graduation. Plans of work filed late may result in recognition of the minor NOT appearing on student's final transcript.

Certification

The minor coordinator will certify the minor prior to graduation. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. Paperwork for certification should be completed no later than during the registration period for the student's final semester at NC State.

Outdoor Leadership (24OLM)

Description

The Department of Health and Exercise Studies offers a minimum of 16-hour minor in Outdoor Leadership. It is designed for undergraduate students wishing to enhance their personal development and enjoyment of adventure-based programs and desiring to pursue careers as outdoor leaders. Students will develop a foundation of essential leadership skills and experience through course work focusing on outdoor skills and leadership training. Students will also have an opportunity to apply theory to practice through a practicum.

The minor will require a minimum of 9 hours plus the practicum experience taken at North Carolina State University.

Requirements

- Complete a minimum of 16 hours of coursework in the following areas.
- A grade of "C-" or better required in each course.
- A minimum overall GPA of 2.0 in the minor.
- There are 5 required courses, totaling 11 semester hours.
- The remaining credit hours consist of 5 elective courses selected from a list of outdoor specific offerings.
- A student enrolled in the Outdoor Leadership minor can expect to incur program costs up to \$500.00 or more. Costs will vary and are dependent on the course(s) in which students are enrolled. Program costs help defray program expenses including guides, transportation, food, campground fees, and specialized equipment rental when required.
- A maximum of TWO (2) course may be used (double-counted) towards both departmental major requirements and minor requirements.

Required Courses (11 credit hours)

- HESM (PEO)/PRT 214 Introduction to Adventure Education (3 cr)
- HESM (PEO)/PRT 215 Principles and Practices of Outdoor Leadership (3 cr)
- HESM (PEO) 216 Backcountry Instruction Methodology (2 cr)
- HESM (PEO) 280 Responding to Emergencies (2 cr)
- HESM (PEO) 302 Practicum Experience in Outdoor Programs (1 cr) Prerequisites: HESM (PEO) 214, 215, 216 and HESM (PEO) 280 or equivalent, must have permission of the instructor

Elective Courses (at least 5 credit hours)

Select 5 courses from the following list:

- HESA (PE) 223 Lifeguard Training (1 cr)
- HESA (PE) 226 SCUBA (2 hours)
- HESA (PE) 227 Advanced SCUBA (2 cr)
- HESO (PE) 253 Orienteering (1 cr)
- HESO (PE) 255 Basic Canoeing (1 cr)
- HESO (PE) 257 Backpacking (1 cr)
- HESO (PE) 258 Basic Rock Climbing (1 cr)
- HESO (PE) 259 Intermediate Rock Climbing (1 cr)
- HESO (PE) 262 Whitewater Canoeing (1 cr)
- HESO (PE) 263 Whitewater Kayaking (1 cr)
- HESO (PE) 276 Whitewater Rafting (1 cr)
- HESO (PE) 277 Mountain Biking (1 cr)
- HESO (PE) 283 Mountaineering (1 cr)
- HESO (PE) 284 Sea Kayaking (1 cr)

- HESO (PE) 278 Fly Fishing (1 cr)
- *HESO (PE) 281 Introduction to Challenge Course Programming

***NOTE:** The Challenge Course Programming course cannot be applied towards the university physical education requirement.

Admissions

Any student seeking this minor must consult with one of the contact persons listed below to discuss a plan of work for the minor. The [Application for Minor](#) must be submitted to the student's major advisor as soon as possible AND to the college no later than the end of the registration prior to the last semester before graduation. Plans of work filed late may result in recognition of the minor NOT appearing on student's final transcript.

Certification

The contact persons listed below will certify the minor prior to graduation. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. Paperwork for certification should be completed no later than during the registration period for the student's final semester at NC State.

Contact Person

Terry Dash
2009C Carmichael Gymnasium
919.515.1392
terry_dash@ncsu.edu

Effective Date: 7/2012

SIS Code: 24OLM

1. Statement of Justification

The minor in Plant Biosecurity and Regulatory Science was created to meet an anticipated demand for training in students interested in careers in federal or state departments of Agriculture and specifically was developed as a cooperative effort of NCSU and USDA APHIS scientists. Three of the courses in the minor were developed and taught by USDA/APHIS scientists for multiple years in the late 2000 and 2005. The lead scientist for those courses left the Raleigh area and no other instructors were found in APHIS to teach those classes. As a result, enrollment in the minor went to zero, and there have been no students in that minor for at least 6 years. Due to the lack of interest and more importantly, no instructors to teach the regulatory parts of the minor, we are asking that this minor be discontinued.

2. Statement of Academic Minor Program Objectives

Students completing a minor in Plant Biosecurity and Regulatory Science will become familiar with the organization, structure and mission of agencies that are tasked with protecting plant life and health such as the United States Department of Agriculture.

3. List of Courses constituting the Proposed Minor

The top three courses in this list are still taught and two of them are now part of a certificate program in the Department of Entomology and Plant Pathology. The bottom three courses have no identified instructor at APHIS or at NCSU.

CS 414 Weed Science (4 credits)

ENT 425 General Entomology (3 credits)

PP 315 Principles of Plant Pathology (4 credits)

PP/ENT 450 Challenges in Plant Resource Protection (3 credits)

PP/ENT 460 Fundamentals of (Pest) Risk Analysis (1 credit)

PP/ENT 490 Seminar- Critical Issues in Plant Protection (1 credit)

4. Catalog Description of Proposed Minor

N/A – minor is being discontinued

5. Administration of the Minor (Contact information for Administrator of the Minor)

N/A – minor is being discontinued

6. Requirements for Admission and Completion of the Minor

N/A – minor is being discontinued

7. Statement on Other Departments Likely to be Affected and Summary of Consultations with those Departments

The newly merged Entomology and Plant Pathology department is in full agreement with discontinuing this minor. No other departments are expected to be affected since there have been no students in this minor for many years. APHIS personnel are also supportive of discontinuing the minor, as they have no scientists that are interested in developing the courses needed to complete the minor.

8. Projected enrollment

There is no projected enrollment in this minor.

Plant Biosecurity And Regulatory Science (11PBSM)

Description

The minor in Plant Biosecurity and Regulatory Science is open to all baccalaureate students. The minor is especially appropriate for students enrolled in agricultural and natural resource majors that are interested in careers with Federal or State Departments of Agriculture. Students completing a minor in Plant Biosecurity and Regulatory Science will become familiar with the organization, structure and mission of agencies that are tasked with protecting plant life and health such as the United States Department of Agriculture. The minor requires the completion of 16 credits. The minimum grade required for courses counting towards the minor is a C-.

Requirements

The Plant Biosecurity and Regulatory Science minor consists of a minimum of 16 credit hours.

Required Courses

CS 414 Weed Science (4 credits)
ENT 425 General Entomology (3 credits)
PP 315 Principles of Plant Pathology (4 credits)
PP/ENT 450 Challenges in Plant Resource Protection (3 credits)
PP/ENT 460 Fundamentals of (Pest) Risk Analysis (1 credit)
PP/ENT 490 Seminar- Critical Issues in Plant Protection (1 credit)

Admissions

Students who plan to minor in Plant Biosecurity and Regulatory Science should contact Dr. Rick Davis for consultation and approval. Application to complete the PBRS minor must be submitted to 2510 Thomas Hall, by the Spring semester of the freshman year, in order to complete all requirements as scheduled.

Certification

Dr. Davis will certify the completion of the student's minor program. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. Paperwork for certification can be found in the 2221 Jordan Hall and should be completed no later than during the registration period for the student's final semester at NC State.

Contact Person

Dr. Rick Davis
2510 Thomas Hall
919.515.2510



MEMO

Date: February 28, 2017
To: Dr. Barbara Kirby, Associate Vice Provost, Academic Programs & Services
From: Dr. Tamah Morant, Associate Dean, Management
Subject: Business Management – Finance Concentration Update

The Poole College of Management proposes to make a minor revision to the Business Management Major – Finance Concentration (20BUSFIN) concentration electives, effective Spring 2017. To better reflect demands of employers and mirror curriculum offerings at other universities, Business Finance would like to add the newly created BUS 429 – Financial Modeling course to the concentration electives for the Finance Concentration.

For curricula prior to 2017, that course should just be added to the list of options for students. For the most recent curriculum, requirement term 2171, Business Finance would like to add BUS 429 and remove ACC 411 and EC 404 and 474. Proposed changes are outlined below and a revised 8-semester display for both scenarios are provided with this memo.

There is currently only one student enrolled in Business Finance with a 2171 Requirement Term and we will work with that student to accommodate the change. All other Finance students are in an earlier Requirement Term.

The Accounting and Economics departments have both been consulted on this change, and have indicated their approval by passing the change via the Poole College Curriculum Committee.

Concentration Requirements For Pre-2171 Curricula

Currently:

BUS 420 and BUS 422
Two from: BUS 425, BUS 426, BUS 428,
ACC 411, EC 404 or 474

Proposed:

BUS 420 and BUS 422
Two from: BUS 425, BUS 426, BUS 428, BUS 429,
ACC 411, EC 404 or 474

Concentration Requirements For 2171

Currently:

BUS 420 and BUS 422
Two from: BUS 425, BUS 426, BUS 428,
ACC 411, EC 404 or 474


Proposed:

BUS 420 and BUS 422
Two from: BUS 425, BUS 426, BUS 428, BUS 429

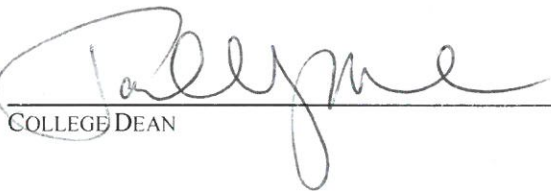
ENDORSED BY:



CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE DATE 2-27-17



DEPARTMENT HEAD, BUSINESS MANAGEMENT DATE 2/27/17



COLLEGE DEAN DATE 2/27/17

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION DATE

DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS DATE

Business Administration (BS) – Finance Concentration: (20BUSFIN)

Semester Display 2-28-17 (v2.6)

FRESHMAN YEAR				
Fall Semester	Credits		Spring Semester	Credits
M 100 Professionalism, Diversity and Acad Success in Mgmt ¹	1		MA 114 Finite Math ⁷	3
ENG 101 ² or Natural Science (with Lab) ³	4		Communications ⁸ or Humanities ⁹	3
MA 121/131/141 Calculus ^{2, 4}	3		ENG 101 ² or Natural Science (with Lab) ³	4
FL_ 201 ⁵	3		EC 201 Principles of Microeconomics ^{2, 11}	3
MIE 201 Intro to Business Processes	3		ACC 210 Concepts of Financial Reporting ²	3
HESF 1** Health & Exercise Studies Course ⁶	1			
	15			16
SOPHOMORE YEAR				
Fall Semester	Credits		Spring Semester	Credits
ACC 200 Intro to Managerial Accounting ²	3		BUS 320, 340, 360, 370, MIE 305, 310, 330 ¹³	9
Communications ⁸ or Humanities ⁹	3		<i>(take three)</i>	
BUS/ST 350 Econ/Bus Statistics ^{2, 12}	3		PSY 200 Intro to Psychology	3
Natural Science ³	3		Additional Breadth ¹⁴	3
EC 202 Principles of Macroeconomics	3		ST 307 Intro to Statistical Programming-SAS	1
HES_ *** Health & Exercise Studies Course ¹⁰	1			
	16			16
JUNIOR YEAR				
Fall Semester	Credits		Spring Semester	Credits
BUS 320, 340, 360, 370, MIE 305, 310, 330 ¹³	6		BUS 320, 340, 360, 370, MIE 305, 310, 330 ¹³	6
<i>(take two)</i>			<i>(take two)</i>	
Advanced Writing ¹⁵	3		Concentration course ¹⁸	3
Free electives ¹⁶	6		Free Electives ¹⁶	6
	15			15
SENIOR YEAR				
Fall Semester	Credits		Spring Semester	Credits
Concentration courses ¹⁸ <i>(take two)</i>	6		MIE 480 Business Policy & Strategy	3
Interdisciplinary Perspectives ¹⁷	2		Concentration course ¹⁸	3
Humanities ⁹	3		Free Electives ¹⁶	6
Free Elective ¹⁶	4			
	15			12
Minimum Credit Hours Required for Graduation*				120

GPA Graduation Requirements:

Overall GPA for all courses attempted at NC State must be 2.0 or higher; and
Overall GPA for all BUS, MIE, and M courses attempted at NC State must be 2.0 or higher.

1. Students should take M 100 their first semester in the program.
2. Must be completed with "C-" or better.
3. 7 credit hours-include one laboratory course or course with a lab from the GEP Natural Sciences list.
4. MA 131 or MA 141 are encouraged for students who qualify and aspire to take additional calculus. For students completing MA 141, one credit of MA141 will count as free elective credit.
5. Unless a placement exam is successfully completed, students are required to complete FL_ 201 – the third semester of a foreign language (through the intermediate level). Students will not receive credit for courses below 102 unless starting a language different from their high school proficiency. Students who place beyond FL_201 and choose not to take a foreign language course will have satisfied the foreign language requirement but will not receive hour credit.
6. 1 hour of Health & Exercise Studies at the 100 level.
7. MA 242 may substitute.
8. COM 110, 112, or 211.
9. Choose two courses from the GEP Humanities list; Students must also take one course from the Poole College of Management Ethics list- MIE 306, PHI 214, 221, 312, 375 (no credit hour requirement); If a student takes a PHI course to satisfy the Ethics requirement, it may double-count as the second humanities course provided the first course was not also a PHI course.
10. 1 hour of Health & Exercise Studies. (PEC, PEF, PEH, PEO and PES courses cannot be taken to satisfy this requirement.) (HES courses may be taken for credit or credit only.)
11. ARE 201 may substitute. The requirement must be met with C- or better.
12. ST 302, 361, 370 or 372 may substitute. The requirement must be met with C- or better.
13. BUS 320 has prerequisites of ACC 210 and EC 201. BUS 360 and MIE 330 have prerequisite of MIE 201.
14. Take one from the GEP Additional Breadth- Humanities/Social Sciences/Visual Performing Arts list.
15. ENG 331, 332, 333.
16. Some courses will not count as free electives, such as FL 101, or 105 (in the language in which proficiency requirement is met), or MA 101, 103, 105. (12 hours of free electives may be taken for credit only.)
17. Choose one course from the GEP Interdisciplinary Perspectives list. For students completing a three-credit IP course, one credit will count in free electives.
18. Students in the Finance concentration should take BUS 420 and 422 and two of: BUS 425, 426, 428, 429

*Students must also complete as a part of their degree requirements one course from the GEP U.S. Diversity list (no credit hour requirement) and one course from the GEP Global Knowledge list (no credit hour requirement).

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> B.S. Business Administration	<u>Plan SIS Code:</u>
Concentration/Subplan Title: BUS-Finance, Information Technology, Human Resources, Entrepreneurship, Marketing, Operations/Supply Chain Management	
Subplan SIS Code:	
<u>Indicate requirements status:</u> Current: Proposed: x <u>Proposed</u> Effective Semester: Spring 2017	
<u>New Degree Audit required?</u> (Y or N) Y	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.	

MAJOR FIELD OF STUDY REQUIREMENTS:	Credit Hours	GEP category, if applicable
Required Courses/Groups/ Electives:		
Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.		List GEP category and hours satisfied by a Major requirement
Math MA 121 or 131 or 141 (C- or better); MA 114 (MA 114 or 242)	6	Mathematics (6 hours)
Major (non- ACC/BUS/MIE)		
Advanced Writing (ENG 331, 332, 333)	3	Advanced Communication (3 hours)
EC 201 (EC 201 or ARE 201) (C- or better)	3	Social Sciences (3 hours)
EC 202	3	
PSY 200	3	Social Sciences (3 hours)
FL 201	3	
Communication/Speech (COM 110, 112, 211)	3	
ST 307	1	
Major (ACC/BUS/MIE)		
BUS/ST 350 (BUS/ST 350, ST 302, 361, 370, 372) (C- or better)	3	Technology Fluency (3 hours)
BUS 320	3	
BUS 340	3	Technology Fluency (3 hours)
BUS 360	3	
BUS 370	3	
MIE 201	3	Interdisciplinary Perspectives (3 hours)
MIE 305	3	
MIE 310	3	
MIE 330	3	
MIE 480	3	
ACC 210 (C- or better)	3	
ACC 200 (C- or better)	3	
Concentration Courses/Groups/Electives:		
Finance: BUS 420 and 422; and two from BUS 425, 426, 428, 429		
Information Technology: Choose two from BUS 440, 441, 442; and two from BUS 440, 441, 442, 443, 444, 449		
Human Resources: MIE 434 and 438; and two from MIE 432, 435, 436, 439		
Entrepreneurship: MIE 410, 412, 413; and one from MIE 411, 416, 418 or 419		
	12	

Marketing: BUS 462 and three from BUS 460, 464, 465, 466, 467, 468 Operations/Supply Chain Management: BUS 470; and two from BUS 472, 474, 475; and one from BUS 472, 473, 474, 475, 479, ACC 420		
Free Electives: May not be MA 101, 103, 105, or FL 101 or 105 (in the language in which proficiency is met)	22	This assumes students complete a 2 hr Interdisciplinary Perspectives course
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	95 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): M 100	1	U.S. Diversity Corequisite
Other: Ethics Corequisite One from the following: MIE 306, PHI 214, 221, 312, 375	0	
Total credit hours under College Requirements:	96 Hours	

<u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u>		At least one of the following must be listed:
<i>Courses in the Major and/or Minor may also fulfill a General Education requirement; however, a GEP category <u>may not be subset</u> to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i>		1 Choose course(s) from the University Approved GEP course list for this category.
<i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		2 Minimum requirements are satisfied by Major/College course requirements.
		3 Major/College course requirement satisfies <u>X</u> credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
		4 Co-requisite is satisfied by a Major/College course requirement.
		5 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
		6 Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
General Education Program Requirements: <i>Minimum 39-40 hrs</i>	Credit hours	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits) (At least 1 course with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	7 (Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
Natural Sciences (7 credits) (At least 1 lab course or course with a lab) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	7	8 (Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	6	9 (Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
Social Sciences (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	10 (Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) <i>Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 5 or 6) 11 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
Interdisciplinary Perspectives (5 credits) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	2	12 (Choose statement 1, 2 or 3) Major/College course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.

Health and Exercise Studies (Including one <i>Fitness and Wellness</i> course)	(2 credits)	2	Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.		24 hours	
GEP Co-Requisites:			Courses taken in the Major, GEP, or Minor may double-count to fulfill the co-requisites. Courses that satisfy the U.S. Diversity or Global Knowledge co-requisite are marked on course lists with a "USD" or "GK" indicator.
U.S. Diversity co-requisite	(USD)	n/a	13 <small>(Choose statement 1 or 4)</small> Co-requisite is satisfied by a Major/College course requirement.
Global Knowledge co-requisite	(GK)	n/a	14 <small>(Choose statement 1 or 4)</small> Choose course(s) from the University Approved GEP course list for this category.
Foreign Language Proficiency		n/a	FL 201 required.
The following requirements must be satisfied within the College/Program:		x	Place an X in the credit hour box to indicate below that the requirement is " Satisfied by College/Program Requirements "
Communication in the Major (Advanced Communication)		x	Satisfied by College/Program Requirements
Technology Fluency		x	Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.		120 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.



Poole College of Management
Office of Undergraduate Programs
poole.ncsu.edu

2150 Nelson Hall
Campus Box 8164
Raleigh, NC 27695-7229
P: 919.515.5565

MEMO

Date: February 27, 2017
To: Dr. Barbara Kirby, Associate Vice Provost, Academic Programs & Services
From: Dr. Tamah Morant, Associate Dean, Management
Subject: Change in Name of Data Analytics Honors Program

The Poole College of Management proposes to change the name of the Data Analytics Honors Program to the **Business** Analytics Honors Program.

When Poole introduced the data analytics program, based on feedback we received from business, we selected data analytics as the name for the program. We acknowledged at that time the name may need to change as data analytics was evolving in the business community. Three events have occurred in the intervening years, 1) most other colleges have also moved into data analytics, 2) the business community has moved toward the term business analytics to recognize the implementation of data analytics in a business context, and 3) confusion has arisen between educating students to become data scientists and educating students to use data in their chosen field of study. For these reasons, we concluded the data analytics program needs to be modified to "business analytics."

We are also updating the course titles for any Poole courses that use the term "Data Analytics."

ENDORSED BY:

 2-27-17
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE DATE

 2/27/17
PROGRAM DIRECTOR, DATA ANALYTICS HONORS PROGRAM DATE

 2/27/17
COLLEGE DEAN DATE

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE DATE

DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS DATE

**NORTH CAROLINA STATE UNIVERSITY
UNDERGRADUATE CURRICULUM ACTION FORM
Academic Minor**

DEPARTMENT(S):

Health & Exercise Studies

TYPE OF PROPOSAL:

New Minor: _____

TITLE OF THE MINOR:

Health (24HLTHM)

Revision to Minor: X

Discontinuation: _____

PROPOSED EFFECTIVE DATE: Spring 2017 APPROVED EFFECTIVE DATE: _____

ATTACHMENTS INCLUDED:

1. Statement of Justification

The Department of Health and Exercise Studies is requesting a minimum overall GPA of 2.0 be added to the Health minor. This is to ensure the quality of student learning and success. The Department of Health and Exercise Studies is also requesting dropping HESE 300 Emergency Medical Technician Basic (4 cr) from the Health minor. This course is no longer offered in the department or at the University. The Emergency Medicine program previously offered by the Department of Health and Exercise Studies was dissolved in the Fall of 2016.

2. Statement of Academic Minor Program Objectives

3. List of Courses constituting the Minor

Required Courses (7 credit hours)

*Students must complete HESM 285 (Personal Health), HESM 375 (Health Planning and Programming), HESM (PEH) 377 (Methods of Health Promotion) and at least 6 hours of electives from the Health Minor before taking HESM (PEH) 300 (Practicum in Health).

- HESM 285 Personal Health (2 cr)
- HESM 375 Health Planning and Programming (2 cr)
- HESM 377 Methods of Health Promotion (2 cr)
- *HESM 300 Practicum in Health (1 cr)

Elective Courses (8 credit hours)

The elective courses may be selected in consultation with your Health minor advisor. The following are a list of approved elective courses for your consideration.

- BIO 105 (WITH BIO 106 Lab- 1cr) Biology in the Modern World (3 cr) OR BIO 181 Introductory Biology I (4 cr)
- GN 301 Genetics in Human Affairs (3 cr)
- MB 200 Microbiology and World Affairs (3 cr)
- NTR 301 Introduction to Human Nutrition (3 cr)
- HESM 212 Alcohol, Drugs, and Tobacco (2 cr)
- HESM 213 Human Sexuality (2 cr)
- HESM 280 Responding to Emergencies (2 cr)
- HESM 281 First Responder (3 cr)
- HESM 284 Women's Health Issues (2 cr)
- HESM 286 Nutrition, Exercise and Weight Control (2 cr)

- HESM 287 Stress Management (2 cr)
- HESE 300 Emergency Medical Technician Basic (4 cr)- remove
- HESM 335 Prevention of Sexual Assault and Violence (3 cr)
- PRT 200 Leisure Behavior, Health and Wellness (3 cr)
- SOC 381 Sociology of Medicine (3 cr)

4. **Catalog Description of Minor**

The Department of Health and Exercise Studies offers a 15-hour minor in Health which is designed for undergraduate students wishing to pursue careers in health-related professions and for students wishing to gain in-depth knowledge in various contemporary health-related topics for their own personal development. The minor provides students with theories, concepts, and practical skills concerning health behavior and includes a practicum to apply theory to practice. No courses for the minor may be taken for S/U credit.

The minor will require a minimum of 9 hours plus the practicum experience taken at North Carolina State University.

5. **Administration of the Minor (Contact information for Administrator of the Minor)**

Chris Ousley
 Senior Lecturer
 Chris_ousley@ncsu.edu
 2040 Carmichael Gym
 919-515-6868

6. **Requirements for Admission and Completion of the Minor**

Requirements for Completion of Minor

- A grade of "C-" or better required in each course.
- A minimum overall GPA of 2.0 in the minor.
- All Health Minor courses (16 credit hours) must be taken for a letter grade to complete the Health minor.
- The minor will require a minimum of ten (10) hours taken at North Carolina State University.
- Students must complete HESM 285 (Personal Health), HESM 375 (Health Planning and Programming), HESM 377 (Methods of Health Promotion) and at least 6 hours of electives from the Health Minor before taking HESM (PEH) 300(Practicum in Health).
- HESM 285 (Personal Health) will be a prerequisite for HESM 375 (Health Planning and Programming).
- HESM 285 (Personal Health) and HESM 375 (Health Planning and Programming) will be prerequisites for HESM 377 (Methods of Health Promotion).
- A maximum of TWO (2) courses may be used (double-counted) towards both departmental major requirements and minor requirements.
- No courses for the minor may be taken for S/U credit.

Admissions

Students interested in declaring a minor in Health should consult with the below contact person. Students who select the Health minor will be assigned a minor advisor. The program will be overseen by a standing Health Minor Committee. Members of the committee will be chosen from those teaching core courses or from among faculty members with a special interest and expertise in the interrelationship of health, wellness, and contemporary society.

Health (24HLTHM)

Description

The Department of Health and Exercise Studies offers a 15-hour minor in Health which is designed for undergraduate students wishing to pursue careers in health-related professions and for students wishing to gain in-depth knowledge in various contemporary health-related topics for their own personal development. The minor provides students with theories, concepts, and practical skills concerning health behavior and includes a practicum to apply theory to practice. No courses for the minor may be taken for S/U credit.

The minor will require a minimum of 9 hours plus the practicum experience taken at North Carolina State University.

Requirements

- A grade of "C-" or better required in each course.
- Minimum overall GPA of 2.0 in the minor.
- All Health Minor courses (16 credit hours) must be taken for a letter grade to complete the Health minor.
- The minor will require a minimum of ten (10) hours taken at North Carolina State University.
- Students must complete HESM 285 (Personal Health), HESM 375 (Health Planning and Programming), HESM 377 (Methods of Health Promotion) and at least 6 hours of electives from the Health Minor **before taking HESM (PEH) 300**(Practicum in Health).
- HESM 285 (Personal Health) will be a prerequisite for HESM 375 (Health Planning and Programming).
- HESM 285 (Personal Health) and HESM 375 (Health Planning and Programming) will be prerequisites for HESM 377 (Methods of Health Promotion).
- A maximum of TWO (2) courses may be used (double-counted) towards both departmental major requirements and minor requirements.
- No courses for the minor may be taken for S/U credit.

Required Courses (7 credit hours)

*Students must complete HESM (PEH) 285 (Personal Health), HESM (PEH) 375 (Health Planning and Programming), HESM (PEH) 377 (Methods of Health Promotion) and at least 6 hours of electives from the Health Minor **before taking HESM (PEH) 300** (Practicum in Health).

- HESM (PEH) 285 Personal Health (2 cr)
- HESM (PEH) 375 Health Planning and Programming (2 cr)
- HESM (PEH) 377 Methods of Health Promotion (2 cr)
- *HESM (PEH) 300 Practicum in Health (1 cr)

Elective Courses (8 credit hours)

The elective courses may be selected in consultation with your Health minor advisor. The following are a list of approved elective courses for your consideration.

- BIO 105 (WITH BIO 106 Lab- 1cr) Biology in the Modern World (3 cr) **OR** BIO 181 Introductory Biology I(4 cr)
- GN 301 Genetics in Human Affairs (3 cr)
- MB 200 Microbiology and World Affairs (3 cr)
- NTR 301 Introduction to Human Nutrition (3 cr)
- HESM (PEH) 212 Alcohol, Drugs, and Tobacco (2 cr)
- HESM (PEH) 213 Human Sexuality (2 cr)
- HESM (PEH) 280 Responding to Emergencies (2 cr)
- HESM (PEH) 281 First Responder (3 cr)
- HESM (PEH) 284 Women's Health Issues (2 cr)

- HESM (PEH) 286 Nutrition, Exercise and Weight Control (2 cr)
- HESM (PEH) 287 Stress Management (2 cr)
- ~~HESE (PEH)/ BIO 300 Emergency Medical Technician Basic (4 cr)~~
- HESM (PEH) 335 Prevention of Sexual Assault and Violence (3 cr)
- PRT 200 Leisure Behavior, Health and Wellness (3 cr)
- SOC 381 Sociology of Medicine (3 cr)

Admissions

Students interested in declaring a minor in Health should consult with the below contact person. Students who select the Health minor will be assigned a minor advisor. The program will be overseen by a standing Health Minor Committee. Members of the committee will be chosen from those teaching core courses or from among faculty members with a special interest and expertise in the interrelationship of health, wellness, and contemporary society. Members of the committee are eligible to serve as minor advisors. The advisor will consult with the student to assure that the minor program is progressing.

Certification

The below contact person will certify the minor prior to graduation. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. The student must file a copy of the plan of coursework with the major advisor as soon as the minor is declared – at the latest, by the end of the regular registration period one semester prior to the semester of graduation.

Contact Person

Christopher S. Ousley
2040 Carmichael Gymnasium
919.515.6868
chris_ousley@ncsu.edu

Effective Date: 8/2011

SIS Code: 24HLTHM

NC STATE UNIVERSITY

TO: Office of the Dean for Academic and Student Affairs
FROM: Jane Lubischer, Assistant Department Head
RE: updates to the 17BIOSCMCD curriculum
DATE: 31 January, 2017

Proposed effective date: 1 March 2017

Proposed changes and justification

This minor action proposes to update the **17BIOSCMCD** curriculum in light of new courses and newly discovered courses. The proposed changes are summarized in the table below.

List/requirement	Action	Course	
MCD Electives	ADD	BIT 471 BIT 473 BIT 474 BIT 476 BIT 477 BIT 478	RNA Interference and Model Organisms Experimental Analysis of Protein-Protein Interactions Plant Genetic Engineering Applied Bioinformatics Metagenomics Mapping the Brain
Physiology Requirement	ADD	BIO 240 BIO 245	Principles Human Anat & Phys (A) – course action in progress Principles Human Anat & Phys (B) – course action in progress
Cell Biology Requirement	CORRECT	BIO 414	Please make it clear that (the cross listed) PB 414 also meets this requirement.
Learning Experience Elective	ADD	BSC 498	Biological Sciences Honors Project Part 2

Semester-by-Semester Display (Format A) – changes are highlightedPROPOSED EFFECTIVE DATE: 1 March 2017DEGREE KEY: 17BIOSCMCDDEGREE TITLE: B.S. in Biological SciencesCONCENTRATION TITLE: Molecular, Cellular, and Developmental Biology**FRESHMAN YEAR**

<i>Fall Semester</i>	<i>Credit</i>		<i>Spring Semester</i>	<i>Credit</i>
LSC 101 Critical Creative Thinking Life Sci*	2		BIO 183 Intro Bio: Cellular & Molecular	4
BIO 181 Intro Bio: Ecol, Evol, Biodiv	4		CH 221 Organic Chemistry I	3
CH 101 Chemistry-A Molecular Science	3		CH 222 Organic Chemistry I Lab	1
CH 102 General Chemistry Lab	1		ENG 101 Academic Writing & Research*	4
MA 131 ¹ Calculus Life & Mgmt Sci. A	3		MA 231 ¹ Calculus Life & Mgmt Sci. B	3
LSC 103 Exploring Opportunities Life Sci	1			
GEP Health and Exercise Studies Req*	1			
	<i>Total:</i>			<i>Total:</i>
	15			15

SOPHOMORE YEAR

<i>Fall Semester</i>	<i>Credit</i>		<i>Spring Semester</i>	<i>Credit</i>
BIO 250 Animal Anatomy & Physio ²	4		GN 311 Principles of Genetics	4
CH 223 Organic Chemistry II	3		GN 312 Elementary Genetics Lab	1
CH 224 Organic Chemistry II Lab	1		CH 201 Chemistry-A Quantitative Sci.	3
Free Elective ³	3		CH 202 Quantitative Chemistry Lab	1
GEP Social Sciences Requirement*	3		GEP Interdisciplinary Perspectives Req ^t *	3
GEP Health & Exercise Studies Req*	1		Learning Experience Elective ⁶	3
	<i>Total: 15</i>			<i>Total: 15</i>

JUNIOR YEAR

<i>Fall Semester</i>	<i>Credit</i>		<i>Spring Semester</i>	<i>Credit</i>
PY 211 ⁴ College Physics I	4		PY 212 ⁴ College Physics II	4
BIO 361 or GN 434	3		BIO/PB 414 Cell Biology	3
BCH 351 or 451 Biochemistry	4		BIT 410 Manip. of Recombinant DNA	4
Advanced Writing Requirement ⁵	3		Free Elective ⁷	3
GEP Humanities Requirement*	3		GEP Humanities Requirement*	3
	<i>Total: 17</i>			<i>Total: 17</i>

SENIOR YEAR

<i>Fall Semester</i>	<i>Credit</i>		<i>Spring Semester</i>	<i>Credit</i>
MCD Elective ⁸	3		MCD Elective ⁸	3
MCD Elective ⁸	3		Sci & Math Elective ⁷	4
Sci & Math Elective ⁷	4		GEP Social Sciences Requirement*	3
GEP Additional Breadth Requirement*	3		Free Elective ³	3
Free Elective ³	3			
	<i>Total: 16</i>			<i>Total: 13</i>

Minimum Credit Hours Required for Graduation: 123

Footnotes:

†A grade of C- or better is required in the following courses:

LSC 101 Critical and Creative Thinking in the Life Sciences ← *as on degree audit*
 BIO 181 Introductory Biology: Ecology, Evolution, & Biodiversity
 BIO 183 Introductory Biology: Cellular & Molecular Biology
 BIO 361 Developmental Biology or GN 434 Genes and Development ← *as on degree audit*
 BIO/PB 414 Cell Biology
 BIT 410 Manipulation of Recombinant DNA
 BCH 351 or 451 Biochemistry
 GN 311 Principles of Genetics
 GN 312 Elementary Genetics Lab [*please add a "return" here*]
 Physiology Requirement²

MA 131 Calculus for Life and Management Sciences A
 MA 231 Calculus for Life and Management Sciences B
 CH 101/102 Chemistry – A Molecular Science & Lab
 CH 221/222 Organic Chemistry I & Lab
 CH 223/224 Organic Chemistry II & Lab
 CH 201/202 Chemistry – A Quantitative Science & Lab
 PY 211 College Physics I
 PY 212 College Physics I

[*please add a "return" here*]

MCD Electives⁸

Advanced Writing Requirement⁵

ENG 101 Academic Writing & Research

[*please add a "return" here*]

Taking courses for credit only (S/U): only PE, Free Electives and courses offered only for S/U credit can be applied to graduation requirements. Students should check with their adviser before electing to take any course that normally is graded A-F as an S/U course.

[*please add a "return" here*]

¹*Mathematics Alternatives*

MA 141 and MA 241 can be substituted for MA 131 and MA 231.

[*please add a "return" here*]

²*Physiology Alternative*

BIO 212 or BIO 240 or BIO 245 can be substituted for BIO 250.

No changes in footnotes 3-5 (so they are not re-printed here)

³*Free Electives (take 12 credit hours)*

⁴*Physics Alternatives*

⁵*Advanced Writing Requirement (take one course)*

⁶*Learning Experience Elective (take one course for 3 credit hours)*

Learning experience in an appropriate area (research, teaching, or other professional experience), with prior approval by faculty adviser and prospective supervisor. Contact and arrangements with prospective supervisors is the responsibility of the student. Talk to your advisor about this requirement.

—[BIO 499 Honors Project, Part 2 \(BIO 498 required\)](#)

- ~~BIO 492 External Learning Experience~~
- ~~BIO 493 Special Problems in Biological Sciences~~

⁷ *Additional Science & Math Electives (take 8 credit hours)*

Courses may be selected from the Sci & Math Electives list. Students also can use up to 3 hours of BIO 269 or BIO 492 or BIO 493 or **ALS BIO 498/499** (must complete both) toward this requirement. Students interested in graduate school or professional school should check the courses required for admission to the programs to which they plan to apply. **← This change was in our previously approved revision.**

⁸ *MCD Electives (take 9 credit hours)*

- BCH 452 Biochemistry Lab
- BCH 453 Biochemistry of Gene Expression
- BCH 455 Proteins and Molecular Mechanisms
- BIO 370 Developmental Anatomy of the Vertebrates
- BIO 375 Developmental Anatomy Lab
- BIO 405 Functional Histology
- BIO 421 Advanced Human Anatomy and Physiology
- BIO 426 Advanced Human Anatomy and Physiology Lab
- BIO 482 Capstone Course in Molecular, Cellular, and Developmental Biology
- BIT 461 Sequencing cDNA Libraries
- BIT 462 Gene Expression Analysis: Microarrays
- BIT 463 Fermentation of Recombinant Microorganisms
- BIT 464 Protein Purification
- BIT 465 Real-time PCR Techniques
- BIT 466 Animal Cell Culture Techniques
- BIT 467 PCR and DNA Fingerprinting
- BIT 468 Genome Mapping
- BIT 470 Advanced Animal Cell Culture: Bioreactor Culture
- BIT 471 RNA Interference and Model Organisms**
- BIT 473 Experimental Analysis of Protein-Protein Interactions**
- BIT 474 Plant Genetic Engineering**
- BIT 476 Applied Bioinformatics**
- BIT 477 Metagenomics**
- BIT 478 Mapping the Brain**
- BIT 481 Plant Tissue Culture and Transformation
- GN 413 Advanced Genetics or GN 421 Molecular Genetics
- GN 415 Genome Science
- GN 427 Introductory Bioinformatics
- GN 441/541 Human and Biomedical Genetics
- MB 351 General Microbiology
- MB 352 or MB 354 Microbiology Lab
- MB 411 Medical Microbiology
- MB 412 Medical Microbiology Lab
- MB 414 Microbial Metabolic Regulation
- MB 420 Fundamentals of Microbial Cell Biotransformations
- MB 441 Immunology
- MB 455 Microbial Biotechnology
- MB 461 Introduction to Molecular Virology

PB 421 Plant Physiology
PB 480 Plant Biotechnology
PB 481 Plant Tissue Culture and Transformation

Fwd: adding BIT courses to our electives lists

1 message

Jane Lubischer <jllubisc@ncsu.edu>

Mon, Feb 20, 2017 at 11:25 AM

To: Li Marcus <lamarcus@ncsu.edu>, Office of Courses Curricula <courses-curricula@ncsu.edu>

Can you please add this response from Bob Kelly to our MCD curricular action as a consultation?

thanks,
jane

Jane L Lubischer, Ph.D.
National Academies Education Mentor in the Life Sciences
Director, NCSU Life Sciences First Year Program
and Assistant Department Head, Dept of Biological Sciences
NC State University
2706 Bostian Hall
Campus Box 7611
Raleigh, NC 27695
919-515-2587
jllubisc@ncsu.edu

----- Forwarded message -----

From: **Robert Kelly** <rmkelly@ncsu.edu>

Date: Fri, Feb 17, 2017 at 7:52 AM

Subject: Re: adding BIT courses to our electives lists

To: Jane Lubischer <jllubisc@ncsu.edu>, "carlos.goller@ncsu.edu" <carlos.goller@ncsu.edu>, Sabrina Robertson <sedought@ncsu.edu>

Jane:

We are fine with all this. Note that we cannot save seats so first registered, first served.

The bioinformatics course (BIT 476) will likely not be offered in the future so I would remove this.

Thanks for your interest and support of the BIT Program.

Bob

On Tue, Feb 14, 2017 at 6:13 PM, Jane Lubischer <jllubisc@ncsu.edu> wrote:

Hi, Bob.

We would like to catch up in adding new BIT courses to electives lists for our students, and I wanted to give you an opportunity to weigh in on this if you have any concerns. None of these would be required courses, so students wouldn't have to take any one of them to graduate -- the courses would just add to their options.

Specifically, we would like to add the following courses to the MCD Electives list (in our Molecular, Cellular, and Developmental Biology concentration within Biological Sciences, 17BIOSCMCD):

BIT 471, BIT 473, BIT 474, BIT 476, BIT 477, and BIT 478.

I also expect the Integrative Physiology and Neurobiology concentration (17BIOSCIPN) will want to add BIT 478 to their IPN

Electives list.

Thanks,
jane

Jane L Lubischer, Ph.D.
National Academies Education Mentor in the Life Sciences
Director, NCSU Life Sciences First Year Program
and Assistant Department Head, Dept of Biological Sciences
NC State University
2706 Bostian Hall
Campus Box 7611
Raleigh, NC 27695
919-515-2587
jllubisc@ncsu.edu

Fwd: adding BIT courses to our electives lists

1 message

Jane Lubischer <jllubisc@ncsu.edu>

Mon, Feb 20, 2017 at 11:25 AM

To: Li Marcus <lamarca@ncsu.edu>, Office of Courses Curricula <courses-curricula@ncsu.edu>

Can you please add this response from Bob Kelly to our MCD curricular action as a consultation?

thanks,
jane

Jane L Lubischer, Ph.D.
National Academies Education Mentor in the Life Sciences
Director, NCSU Life Sciences First Year Program
and Assistant Department Head, Dept of Biological Sciences
NC State University
2706 Bostian Hall
Campus Box 7611
Raleigh, NC 27695
919-515-2587
jllubisc@ncsu.edu

----- Forwarded message -----

From: **Robert Kelly** <rmkelly@ncsu.edu>

Date: Fri, Feb 17, 2017 at 7:52 AM

Subject: Re: adding BIT courses to our electives lists

To: Jane Lubischer <jllubisc@ncsu.edu>, "carlos.goller@ncsu.edu" <carlos.goller@ncsu.edu>, Sabrina Robertson <sedought@ncsu.edu>

Jane:

We are fine with all this. Note that we cannot save seats so first registered, first served.

The bioinformatics course (BIT 476) will likely not be offered in the future so I would remove this.

Thanks for your interest and support of the BIT Program.

Bob

On Tue, Feb 14, 2017 at 6:13 PM, Jane Lubischer <jllubisc@ncsu.edu> wrote:

Hi, Bob.

We would like to catch up in adding new BIT courses to electives lists for our students, and I wanted to give you an opportunity to weigh in on this if you have any concerns. None of these would be required courses, so students wouldn't have to take any one of them to graduate -- the courses would just add to their options.

Specifically, we would like to add the following courses to the MCD Electives list (in our Molecular, Cellular, and Developmental Biology concentration within Biological Sciences, 17BIOSCMCD):

BIT 471, BIT 473, BIT 474, BIT 476, BIT 477, and BIT 478.

I also expect the Integrative Physiology and Neurobiology concentration (17BIOSCIPN) will want to add BIT 478 to their IPN

Electives list.

Thanks,
jane

Jane L Lubischer, Ph.D.
National Academies Education Mentor in the Life Sciences
Director, NCSU Life Sciences First Year Program
and Assistant Department Head, Dept of Biological Sciences
NC State University
2706 Bostian Hall
Campus Box 7611
Raleigh, NC 27695
919-515-2587
jllubisc@ncsu.edu

Memorandum

To: Dr. Mike Mullen, Vice Chancellor & Dean, Division of Academic & Student Affairs
From: Kristin Thoney & Traci Lamar, Co-Chairs, TATM Course & Curriculum Committee
Date: January 20, 2017

We are changing the 8 semester displays and accompanying degree audits for our Fashion and Textile Management Degree (18FTMBS) to make some relatively minor updates. The following changes to the 8 semester displays have been made:

18FTMBS 18FTMBMM

1. Freshman year, Fall Semester: In a Course Action that was previously approved, T 101 was reduced from 2 hours to 1 hour. This was updated, which consequently reduced the total credits from 15 to 14.
2. Freshman year, Spring Semester: MA132 is being removed from the curriculum because students now receive the skills that they needed from MA 132 in other classes within the FTM curriculum. This reduces the total credits in that semester from 15 to 14.
3. The Minimum Credit Hours Required for Graduation has been updated to 120 to take into account the reduction of 2 hours.
4. Major/Program Footnote 1 has been updated to remove MA 132.
5. The List of Textile Management Electives described in Major/Program Footnote 2 has been modified in the following ways:
 - a. TT 331 and TT 431 are no longer specifically specified since they are already included later in the list in TT 3xx and TT 4xx.
 - b. FTM 421 was removed since this is not a class that exists.
 - c. "MT 3xx and MT 4xx" were replaced by "MT 323, MT 366, MT 432, and MT 471" since we want to exclude MT381 because it is usually taught with FTM 487, which is a required class for this concentration.
 - d. PCC 401 was added to the list in a previous Minor Action.
 - e. We refined our list of foreign language classes since specifying "300/400 level foreign language" resulted in a lot of classes that we did not want on this list being included (e.g. classes taught entirely in English).

18FTMBS 18FTMFDP

1. Freshman year, Fall Semester: In a Course Action that was previously approved, T 101 was reduced from 2 hours to 1 hour. This was updated, which consequently reduced the total credits from 16 to 15.
2. Freshman year, Spring Semester: MA132 is being removed from the curriculum because students now receive the skills that they needed from MA 132 in other classes within the FTM curriculum. This reduces the total credits in that semester from 17 to 16.
3. The Minimum Credit Hours Required for Graduation has been updated to 120 to take into account the reduction of 2 hours.
4. Major/Program Footnote 1 has been updated to remove MA 132.
5. The List of Textile Management Electives described in Major/Program Footnote 2 has been modified in the following ways:
 - a. FTM 421 and FTM 399 were removed since these are not classes that exist.

The Math Department has been notified that MA 132 is being dropped from the FTM curriculum. See attached email.

Recommended by: *Kristin Shoney-Barlette* TATM C&C Committee
Thomas J. Hill TATM Department Head

Approval: *Kristin Shoney-Barlette* CoT C&C Committee
Nancy J. Cassell CoT Assoc. Dean
..... NCSU C&C Committee
..... Dean, DASA

NC STATE

Kristin Thoney-Barletta <kathoney@ncsu.edu>

Re: MA132

Alina Duca <anduca@ncsu.edu>

Thu, Jan 26, 2017 at 1:56 PM

To: Kristin Thoney-Barletta <kathoney@ncsu.edu>

Cc: Trevor Little <tlittle@ncsu.edu>, Traci Lamar <traci_lamar@ncsu.edu>, Molly Fenn <mafenn2@ncsu.edu>

Dear Kristin,

Thank you for informing us about your proposed changes to your curriculum. Math has no objections to removing MA 132 from your curriculum.

Best,

Alina

Alina Duca, PhD

Director of Undergraduate Programs, Mathematics Department

College of Sciences | North Carolina State University

<http://www.math.ncsu.edu/undergrad> | (919) 515-1875 | SAS 2108

All electronic mail messages in connection with State business which are sent to or received by this account are subject to the NC Public Records Law and may be disclosed to third parties.

On Thu, Jan 26, 2017 at 1:31 PM, Kristin Thoney-Barletta <kathoney@ncsu.edu> wrote:

Dr. Duca,

On behalf of the Department of Textile and Apparel, Technology and Management (TATM), I would like to let you know that we are in the process of submitting Curriculum Action forms to revise our Fashion and Textile Management (FTM) degree.

One of the changes that we are making is that we will no longer be requiring MA132 in our FTM degree.

Our FTM students will still be required to take both MA131 and (MA231 or MA114), and we very much appreciate your continued support in offering these classes to our FTM students.

If you have any further questions, please do not hesitate to contact me via email.

Thanks,

Kristin

Kristin A. Thoney-Barletta, Ph.D.
Associate Professor
Associate Head and Director of Undergraduate Programs
Textile and Apparel, Technology and Management Department

- College of Textiles, Room 3257
North Carolina State University
Box 8301
Raleigh, NC 27695
Phone: 919-515-6514
Fax: 919-515-3733
Associate Faculty Member of Programs in Operations Research
and Integrated Manufacturing Systems Engineering

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: 7/2017

Degree/Plan Title: B.S. Fashion and Textile Management Concentration/Subplan Title: Brand Management and Marketing

Plan SIS Code: 18FTMBS Subplan SIS Code: 18FTMBMM

New Degree Audit required? (Y or N) Y

Current vs Proposed

NOTE: Same- black; Added- blue; Deleted- ~~red~~

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
EC/ARE 201 Principles of Microeconomics ^o	3	CH 101 Chemistry – A Molecular Science ^b	3
ENG 101 Academic Writing and Research ^h	4	CH 102 General Chemistry Lab ^b	1
MA 131 Calc for Life & Mgmt Science ^{1,A}	3	MA 132 Comp Math for Life & Mgmt Sci ¹	1
TT 105 Intro to Textile Technology	3 (CP)	MA 231 Calc for Life & Mgmt Sci B ^{1,A}	3
T 101 Introduction to the College of Textiles	1 2	HES_*** Health & Exercise Studies Course ^e	1
		TMS 211 Intro to Fiber Science	3
		FTM 217 Business of Textiles	3 (CP)
	Total:14 15		Total: 14 15
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ACC 210 Concepts of Financial Reporting	3	BUS 320 Financial Management	3
EC 202 Principles of Macroeconomics	3	Textile Management Elective ²	3
PY 211 College Physics I ^{1,B}	4	TT 252 Formation and Structure of Textile Fabrics	4
TT 221 Yarn Production & Properties I	2	GEP Humanities Requirement ^c	3
HES_*** Health & Exercise Studies Course ^e	1	FTM 220 Princ of Retailing & Supply Chn Mngmt	3
FTM 282 Intro to TX Brand Mgmt/Mktg	3 (CP)		
	Total:16		Total:16
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FTM 310 Entrepreneurship in Textiles	3	FTM 387 Textile Brand Communication	3
Statistics Elective ³	3	ENG 332 Commun for Bus & Mgmt ¹	3
FTM 385 Fashion and the Consumer	3	FTM 384 Visual Merchandising Textile Products	3
FTM 382 Intermed Tx Brand Mgmt & Mktg	3 (CP)	FTM 460 Textile Market Research	3
PCC 302 Tech Tx Wet Processing	4	GEP Social Science Requirement ^o	3
	Total:16		Total:15
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
GEP Additional Breadth Requirement ^f	3	GEP Humanities Requirement ^c	3
GEP IP Requirement ^g	3	FTM 416 The Fashion Industry	3
FTM 482 Advanced Tx Brand Mgmt/Mktg	3	FTM 487 Textile & Apparel Labor Management	3
Textile Management Elective ²	3	FTM 483 Global Textile Trade & Sourcing	3
Textile Management Elective ²	3	GEP IP Requirement ^g	2-3
	Total:15		Total: 14-15
Minimum Credit Hours Required for Graduation ^{u,k} : 120 122			

Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131 and MA 132; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.
2. List of Textile Management Electives (Select any 3 courses or 9 credits from below): Please check prerequisites!

FTM 219, TT 331, TT 431, FTM 271, FTM 320, FTM 380, FTM 400, FTM 420, FTM 421, FTM 481, FTM 484, FTM 485, FTM 486, TT 3xx, TT 4xx, MT 3xx, MT 4xx, MT 323, MT 366, MT 432, MT 471, PCC 401, PSY 311, SOC 300, and 300/400 level foreign language FLA 301, FLC 301, FLC 302, FLF 301, FLF 302, FLG 301, FLG 302, FLJ 301, FLJ 302, FLN 301, FLN 302, FLP 401, FLS 331, FLS 332.

Other 300/400 classes that emphasize learning a foreign language may be approved by the department as Textile Management Electives.

3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

***General Education Program (GEP) requirements and GEP Footnotes:**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html>.

- Ⓐ **Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)
Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **MA131, MA231**
- Ⓑ **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **CH101/102, PY211**
- Ⓒ **Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- Ⓓ **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **EC/ARE201**
- Ⓔ **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)
Choose from the University approved GEP Physical Education/Healthy Living course list.
- Ⓕ **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)
X Humanities/Social Sciences/Visual and Performing Arts or ____Mathematical Sciences/Natural Sciences/Engineering
- Ⓖ **Interdisciplinary Perspectives** (5-6 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- Ⓗ **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:

- Ⓘ **U.S. Diversity** (USD)
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- Ⓛ **Global Knowledge** (GK)
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- Ⓜ **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: 7/2017

Degree/Plan Title: B.S. Fashion and Textile Management

Concentration/Subplan Title: Brand Management and Marketing

Plan SIS Code: 18FTMBS

Subplan SIS Code: 18FTMBMM

New Degree Audit required? (Y or N) Y

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
EC/ARE 201 Principles of Microeconomics ^D	3	CH 101 Chemistry – A Molecular Science ^B	3
ENG 101 Academic Writing and Research ^H	4	CH 102 General Chemistry Lab ^B	1
MA 131 Calc for Life & Mgmt Science ^{1,A}	3	MA 231 Calc for Life & Mgmt Sci B ^{1,A}	3
TT 105 Intro to Textile Technology	3 (CP)	HES_*** Health & Exercise Studies Course ^E	1
T 101 Introduction to the College of Textiles	1	TMS 211 Intro to Fiber Science	3
		FTM 217 Business of Textiles	3 (CP)
	<i>Total:14</i>		<i>Total:14</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ACC 210 Concepts of Financial Reporting	3	BUS 320 Financial Management	3
EC 202 Principles of Macroeconomics	3	Textile Management Elective ²	3
PY 211 College Physics I ^{1,B}	4	TT 252 Formation and Structure of Textile Fabrics	4
TT 221 Yarn Production & Properties I	2	GEP Humanities Requirement ^C	3
HES_*** Health & Exercise Studies Course ^F	1	FTM 220 Princ of Retailing & Supply Chn Mngmt	3
FTM 282 Intro to TX Brand Mgmt/Mktg	3 (CP)		
	<i>Total:16</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FTM 310 Entrepreneurship in Textiles	3	FTM 387 Textile Brand Communication	3
Statistics Elective ³	3	ENG 332 Commun for Bus & Mgmt ¹	3
FTM 385 Fashion and the Consumer	3	FTM 384 Visual Merchandising Textile Products	3
FTM 382 Intermed Tx Brand Mgmt & Mktg	3 (CP)	FTM 460 Textile Market Research	3
PCC 302 Tech Tx Wet Processing	4	GEP Social Science Requirement ^D	3
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
GEP Additional Breadth Requirement ^F	3	GEP Humanities Requirement ^C	3
GEP IP Requirement ^G	3	FTM 416 The Fashion Industry	3
FTM 482 Advanced Tx Brand Mgmt/Mktg	3	FTM 487 Textile & Apparel Labor Management	3
Textile Management Elective ²	3	FTM 483 Global Textile Trade & Sourcing	3
Textile Management Elective ²	3	GEP IP Requirement ^G	2-3
	<i>Total:15</i>		<i>Total: 14-15</i>
Minimum Credit Hours Required for Graduation^{I,J,K}: 120			

Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.

2. List of Textile Management Electives (Select any 3 courses or 9 credits from below): Please check prerequisites! FTM 219, FTM 271, FTM 320, FTM 380, FTM 400, FTM 420, FTM 481, FTM 484, FTM 485,

FTM 486, TT 3xx, TT 4xx, MT 323, MT 366, MT 432, MT 471, PCC 401, PSY 311, SOC 300, FLA 301, FLC 301, FLC 302, FLF 301, FLF 302, FLG 301, FLG 302, FLJ 301, FLJ 302, FLN 301, FLN 302, FLP 401, FLS 331, FLS 332.

Other 300/400 classes that emphasize learning a foreign language may be approved by the department as Textile Management Electives.

3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html>.

- A. **Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)
Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA131, MA231
- B. **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: CH101/102, PY211
- C. **Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- D. **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: EC/ARE201
- E. **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)
Choose from the University approved GEP Physical Education/Healthy Living course list.
- F. **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)
X Humanities/Social Sciences/Visual and Performing Arts or ____ Mathematical Sciences/Natural Sciences/Engineering
- G. **Interdisciplinary Perspectives** (5-6 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- H. **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:

- I. **U.S. Diversity (USD)**
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- J. **Global Knowledge (GK)**
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- K. **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

Fashion and Textile Management (BS): Brand Management and Marketing (18FTMBS-18FTMBMM)

Semester Display Effective Date: 7.2015

FRESHMAN YEAR				
Fall Semester	Credit		Spring Semester	Credit
EC/ARE 201 Principles of Microeconomics* ENG 101 Academic Writing and Research * MA 131 Calc for Life & Mgmt Science ¹ TT 105 Intro to Textile Technology T 101 Introduction to the College of Textiles	3 4 3 3 2 15		CH 101 Chemistry – A Molecular Science CH 102 General Chemistry Lab MA 132 Comp Math for Life & Mgmt Sci ¹ MA 231 Calc for Life & Mgmt Sci B ¹ HES_ *** Health & Exercise Studies Course* TMS 211 Intro to Fiber Science FTM 217 Business of Textiles	3 1 1 3 1 3 3 15
SOPHOMORE YEAR				
Fall Semester	Credit		Spring Semester	Credit
ACC 210 Concepts of Financial Reporting EC 202 Principles of Macroeconomics PY 211 College Physics I ¹ TT 221 Yarn Production & Properties I HES_ *** Health & Exercise Studies Course* FTM 282 Intro to TX Brand Mgmt/Mktg	3 3 4 2 1 3 16		BUS 320 Financial Management Textile Management Elective ² TT 252 Formation and Structure of Textile Fabrics GEP Requirement* FTM 220 Princ of Retailing & Supply Chn Mngmt	3 3 4 3 3 16
JUNIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
FTM 310 Entrepreneurship in Textiles Statistics Elective ³ FTM 385 Fashion and the Consumer FTM 382 Intermed Tx Brand Mgmt & Mktg PCC 302 Tech Tx Wet Processing	3 3 3 3 4 16		FTM 387 Textile Brand Communication ENG 332 Commun for Bus & Mgmt1 FTM 384 Visual Merchandising Textile Products FTM 460 Textile Market Research GEP Requirement*	3 3 3 3 3 15
SENIOR YEAR				

Fall Semester	Credit		Spring Semester	Credit
GEP Requirement*	3		GEP Requirement*	3
GEP Requirement*	3		FTM 416 The Fashion Industry	3
FTM 482 Advanced Tx Brand Mgmt/Mktg	3		FTM 487 Textile & Apparel Labor Management	3
Textile Management Elective ²	3		FTM 483 Global Textile Trade & Sourcing	3
Textile Management Elective ²	3		GEP IP Requirement*	2-3
	15			14-15

Minimum Credit Hours Required for Graduation*:

122

Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131 and MA 132; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.
2. List of Textile Management Electives (Select any 3 courses or 9 credits from below): Please check prerequisites!
FTM 219, TT 331, TT 431, FTM 271, FTM 320, FTM 380, FTM 400, FTM 420, FTM 421, FTM 481, FTM 484, FTM 485, FTM 486, TT 3xx, TT 4xx, MT 3xx, MT 4xx, , PSY 311, SOC 300, and 300/400 level foreign language.
3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

***General Education Program (GEP) requirements and GEP Footnotes:**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://oucc.ncsu.edu/gep-courses>.

Health & Exercise Studies (2 credit hours to be selected from the approved GEP Health & Exercise Studies List .

1. One fitness and wellness course (any Health & Exercise Studies 100-level course)
2. One additional credit hour of Health & Exercise Studies activity courses.

HUMANITIES: 6 credits to be selected in two different disciplines (two different course prefixes) from the approved GEP Humanities List.

SOCIAL SCIENCES: 3 credits to be selected in a discipline other than economics from the approved GEP Social Sciences list. EC/ARE 201 taken as part of the Major requirements satisfies 3 credit hours of the 6 credit hours needed to fulfill the GEP Social Sciences.

ADDITIONAL BREADTH: 3 credits to be selected from the approved GEP Humanities, Social Sciences or Visual and Performing Arts lists.

INTERDISCIPLINARY PERSPECTIVES : (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

INTRODUCTION TO WRITING : (4 credit hours satisfied by completing ENG 101 with a C- or better .)

MATHEMATICS: 6 credits . MA 131 and MA 231 satisfy this requirement.

NATURAL SCIENCES: 7 credits. CH 101/102 and PY 211 satisfy this requirement.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

U.S. Diversity and Global Knowledge co-requisites must be satisfied to complete the General Education Program requirements. Choose course(s) that are identified on the approved GEP course lists as meeting the U.S. Diversity and Global Knowledge co-requisites.

FOREIGN LANGUAGE PROFICIENCY - Proficiency at the FL_102 level is required for graduation.

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> B.S. Fashion and Textile Management	<u>Plan SIS Code:</u> 18FTMBS
<u>Concentration/Subplan Title:</u> Brand Management and Marketing	<u>Subplan SIS Code:</u> 18FTMBMM
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 7/2017
<u>New Degree Audit required?</u> (Y or N) Y	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.	

MAJOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	<i>GEP category, if applicable</i>
Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.		List GEP category and hours satisfied by a Major requirement
Math MA 131 or MA 141, MA 231 or MA 114 or MA 241	6	Mathematical Sciences (6 hours)
Sciences CH 101, CH 102 , PY211 or PY 205/PY 206	8	Natural Sciences (7 hours)
Major ACC 210 BUS 320 FTM 217 FTM 220 FTM 282 FTM 310 FTM 382 FTM 385 FTM 416 TMS 211 PCC 302 TT 105 TT 221 TT 252	3 3 3 (CP) 3 3 (CP) 3 3 (CP) 3 3 3 4 3 (CP) 2 4	
EC 201 or ARE 201 EC 202 ST 311 or ST 361 or ST 370 ENG 332	3 3 3 3	Social Sciences (3 hours)
Concentration Courses/Groups/Electives: FTM 384 FTM 387 FTM 460 FTM 482 FTM 483 FTM 487 Brand Electives (3 courses from below):	3 3 3 3 3 3 9	

FTM 219, FTM 271, FTM 320, FTM 380, FTM 400, FTM 420, FTM 481, FTM 484, FTM 485, FTM 486, TT 3xx, TT 4xx, MT 323, MT 366, MT 432, MT 471, PCC 401, PSY 311, SOC 300, FLA 301, FLC 301, FLC 302, FLF 301, FLF 302, FLG 301, FLG 302, FLJ 301, FLJ 302, FLN 301, FLN 302, FLP 401, FLS 331, FLS 332.		
Free Electives:		
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	96 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): T101	1	
Other:		
Total credit hours under College Requirements:	1 Hour	

<u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u>		<u>At least one of the following must be listed:</u>
<p><i>Courses in the Major and/or Minor may also fulfill a General Education requirement; however, a GEP category may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i></p> <p><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></p>		<ol style="list-style-type: none"> 1 Choose course(s) from the University Approved GEP course list for this category. 2 Minimum requirements are satisfied by Major/College course requirements. 3 Major/College course requirement satisfies <u>X</u> credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category. 4 Co-requisite is satisfied by a Major/College course requirement. 5 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts. 6 Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
General Education Program Requirements: <i>Minimum 39-40 hrs</i>	Credit hours	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits) (At least 1 course with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	(Choose statement 1, 2 or 3). <i>Minimum requirements are satisfied by Major/College course requirements.</i>
Natural Sciences (7 credits) (At least 1 lab course or course with a lab) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	(Choose statement 1, 2 or 3) <i>Minimum requirements are satisfied by Major/College course requirements.</i>
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	6	(Choose statement 1, 2 or 3) <i>Choose course(s) from the University Approved GEP course list for this category</i>
Social Sciences (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 1, 2 or 3) <i>Major/College course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.</i>
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) <i>Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 5 or 6) <i>Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.</i>
Interdisciplinary Perspectives (5 credits) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	5	(Choose statement 1, 2 or 3) <i>Choose course(s) from the University Approved GEP course list for this category</i>
Health and Exercise Studies (2 credits) (Including one Fitness and Wellness course)	2	<i>Choose course(s) from the University Approved GEP course list for this category.</i>

Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.	23 hours	
GEP Co-Requisites:		<i>Courses taken in the Major, GEP, or Minor may double-count to fulfill the co-requisites. Courses that satisfy the U.S. Diversity or Global Knowledge co-requisite are marked on course lists with a "USD" or "GK" indicator.</i>
U.S. Diversity co-requisite (USD)	n/a	<i>(Choose statement 1 or 4)</i> Choose course(s) from the University Approved GEP course list for this category
Global Knowledge co-requisite (GK)	n/a	<i>(Choose statement 1 or 4)</i> Choose course(s) from the University Approved GEP course list for this category
Foreign Language Proficiency	n/a	Proficiency at the FL_102 level required.
The following requirements must be satisfied within the College/Program:		Place an X in the credit hour box to indicate below that the requirement is "Satisfied by College/Program Requirements"
Communication in the Major (Advanced Communication)	X	Satisfied by College/Program Requirements
Technology Fluency	X	Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: 7/2017

Degree/Plan Title: B.S. Fashion and Textile Management Concentration/Subplan Title: Fashion Development and Product Management

Plan SIS Code: 18FTMBS

Subplan SIS Code: 18FTMFDP

New Degree Audit required? (Y or N) Y

Current vs Proposed

NOTE: Same- black; Added- blue; Deleted—red-

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
EC/ARE 201 Principles of Microeconomics ^o	3	CH 101 Chemistry – A Molecular Science ^a	3
ENG 101 Academic Writing and Research ^h	4	CH 102 General Chemistry Lab ^a	1
MA 131 Calc for Life & Mgmt Science ^{1A}	3	MA 132 Comp Math for Life & Mgmt Sci ^{1A}	1
TT 105 Intro to Textile Technology	3	MA 231 Calc for Life & Mgmt Sci B ^{1A}	3
T 101 Introduction to the College of Textiles	1 2	FTM 217 The Textile Industry	3 (CP)
HES_*** Health & Exercise Studies Course ^f	1	TMS 211 Intro to Fiber Science	3
		FTM 220 Prin Retl & Supply Chain Tex	3
	<i>Total:15</i> 16		<i>Total:16</i> 17
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ACC 210 Concepts of Financial Reporting	3	BUS 320 Financial Management	3
EC 202 Principles of Macroeconomics	3	TT 252 Formation and Structure of Textile Fabrics	4
PY 211 College Physics I ^{1B}	4	FTM 271 Computer-Aided Textile Design	3
TT 221 Yarn Production & Properties I	2	FTM 282 Intro to Textile Brand Mgt/Mkt	3 (CP)
FTM 219 Fashion Product Analysis	3 (CP)	FTM 315 Fashion Product Design	3 (CP)
HES_*** Health & Exercise Studies Course ^f	1		
	<i>Total:16</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PCC 302 Tech Textile Wet Processing	4	GEP Humanities Elective ^c	3
Statistics Elective ³	3	GEP Additional Breadth Requirement ^f	3
FTM 385 Fashion & the Consumer	3	FTM 318 Fashion Development Processes	3 (CP)
FTM 317 CAD for Fashion	3 (CP)	ENG 332 Commun for Bus & Mgt ^t	3
FTM 310 Entrepreneurship in Textiles	3	FTM 382 Intermed Tx Brand Mgmt/Mktg	3
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FTM 416 The Fashion Industry	3	FTM 497 Senior Collection Studio or 2 Options ²	6
FTM 415 Fashion Product Development	3	GEP Social Sciences Elective ^o	3
GEP Interdisciplinary Perspectives Requirement ^o	3	GEP Interdisciplinary Perspectives Requirement ^o	2-3
Option Course (Select 1 from List) ²	3		
GEP Humanities Elective ^c	3		
	<i>Total:15</i>		<i>Total: 11-12</i>
Minimum Credit Hours Required for Graduation ^{u,x} : 120 122			

Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131 and MA 132; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.

2. List of Options (take FTM 497 and one (1) course from the list below or select 3 courses or 9 cr from the list below):

Note: Prerequisites may be required for many of the courses in the options below.

ADN 111, ADN 112, ADN 414, TT 331, TT 431, MT 3XX, FTM 320, FTM 380, FTM 387, FTM 420, FTM 421, FTM 480, FTM 481, FTM 484, FTM 485, FTM 486, FTM 487, FTM 399.

3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

***General Education Program (GEP) requirements and GEP Footnotes:**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html>.

- Ⓐ **Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)
Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **MA131, MA231**
- Ⓑ **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **CH101/102, PY211**
- Ⓒ **Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- Ⓓ **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **EC/ARE201**
- Ⓔ **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)
Choose from the University approved GEP Physical Education/Healthy Living course list.
- Ⓕ **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)
 Humanities/Social Sciences/Visual and Performing Arts or _____Mathematical Sciences/Natural Sciences/Engineering
- Ⓖ **Interdisciplinary Perspectives** (5-6 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- Ⓗ **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:

- Ⓘ **U.S. Diversity** (USD)
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- Ⓛ **Global Knowledge** (GK)
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- Ⓚ **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: 7/2017

Degree/Plan Title: B.S. Fashion and Textile Management Concentration/Subplan Title: Fashion Development and Product Management

Plan SIS Code: 18FTMBS

Subplan SIS Code: 18FTMFDP

New Degree Audit required? (Y or N) Y

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
EC/ARE 201 Principles of Microeconomics ^D	3	CH 101 Chemistry – A Molecular Science ^B	3
ENG 101 Academic Writing and Research ^H	4	CH 102 General Chemistry Lab ^B	1
MA 131 Calc for Life & Mgmt Science ^{1,A}	3	MA 231 Calc for Life & Mgmt Sci B ^{1,A}	3
TT 105 Intro to Textile Technology	3	FTM 217 The Textile Industry	3 (CP)
T 101 Introduction to the College of Textiles	1	TMS 211 Intro to Fiber Science	3
HES_ *** Health & Exercise Studies Course ^E	1	FTM 220 Prin Retl & Supply Chain Tex	3
	<i>Total:15</i>		<i>Total:16</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ACC 210 Concepts of Financial Reporting	3	BUS 320 Financial Management	3
EC 202 Principles of Macroeconomics	3	TT 252 Formation and Structure of Textile Fabrics	4
PY 211 College Physics ^{1,B}	4	FTM 271 Computer-Aided Textile Design	3
TT 221 Yarn Production & Properties I	2	FTM 282 Intro to Textile Brand Mgt/Mkt	3 (CP)
FTM 219 Fashion Product Analysis	3 (CP)	FTM 315 Fashion Product Design	3 (CP)
HES_ *** Health & Exercise Studies Course ^E	1		
	<i>Total:16</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PCC 302 Tech Textile Wet Processing	4	GEP Humanities Elective ^C	3
Statistics Elective ³	3	GEP Additional Breadth Requirement ^F	3
FTM 385 Fashion & the Consumer	3	FTM 318 Fashion Development Processes	3 (CP)
FTM 317 CAD for Fashion	3 (CP)	ENG 332 Commun for Bus & Mgt ¹	3
FTM 310 Entrepreneurship in Textiles	3	FTM 382 Intermed Tx Brand Mgmt/Mktg	3
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FTM 416 The Fashion Industry	3	FTM 497 Senior Collection Studio or 2 Options ²	6
FTM 415 Fashion Product Development	3	GEP Social Sciences Elective ^D	3
GEP Interdisciplinary Perspectives Requirement ^G	3	GEP Interdisciplinary Perspectives Requirement ^G	2-3
Option Course (Select 1 from List) ²	3		
GEP Humanities Elective ^C	3		
	<i>Total:15</i>		<i>Total: 11-12</i>
Minimum Credit Hours Required for Graduation ^{I,J,K} : 120			

Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.

2. List of Options (take FTM 497 and one (1) course from the list below or select 3 courses or 9 cr from the list below):

Note: Prerequisites may be required for many of the courses in the options below.

ADN 111, ADN 112, ADN 414, TT 331, TT 431, MT 3XX, FTM 320, FTM 380, FTM 387, FTM 420, FTM 480, FTM 481, FTM 484, FTM 485, FTM 486, FTM 487.

3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html>.

- A. **Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)
Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA131, MA231
- B. **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: CH101/102, PY211
- C. **Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- D. **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: EC/ARE201
- E. **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)
Choose from the University approved GEP Physical Education/Healthy Living course list.
- F. **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)
X Humanities/Social Sciences/Visual and Performing Arts or _____Mathematical Sciences/Natural Sciences/Engineering
- G. **Interdisciplinary Perspectives** (5-6 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- H. **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

- I. **U.S. Diversity (USD)**
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- J. **Global Knowledge (GK)**
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- K. **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

Fashion and Textile Management (BS): Fashion Development and Product Management (18FTMBS-18FTMFDP)

Semester Display Effective Date: 7.2015

FRESHMAN YEAR

Fall Semester	Credit		Spring Semester	Credit
ARE/EC201 Principles of Microeconomics ^D	3		CH 101 Chemistry – Molecular Science ^B	3
ENG 101 Academic Writing and Research ^H	4		CH 102 General Chemistry Lab ^B	1
MA 131 Calc for Life & Mgmt Science ^{1,A}	3		MA 132 Comp Math for Life & Mgmt Sci ^{1,A}	1
TT 105 Intro to Textile Technology	3		MA 231 Calc for Life & Mgmt Sci B ^{1,A}	3
T 101 Introduction to the College of Textiles	2		FTM 217 The Textile Industry	3
HES_*** Health & Exercise Studies Course ^E	1		TMS 211 Intro to Fiber Science	3
	16		FTM 220 Prin Retl & Supply Chain Tex	3
				17

SOPHOMORE YEAR

Fall Semester	Credit		Spring Semester	Credit
ACC 210 Concepts of Financial Reporting	3		BUS 320 Financial Management	3
EC 202 Principles of Macroeconomics	3		TT 252 Formation and Structure of Textile Fabrics	4
PY 211 College Physics I ^{1,B}	4		FTM 271 Computer-Aided Textile Design	3
TT 221 Yarn Production & Properties I	2		FTM 282 Intro to Textile Brand Mgt/Mkt	3
FTM 219 Fashion Product Analysis	3		FTM 315 Fashion Product Design	3
HES_*** Health & Exercise Studies Course ^E	1			
	16			16

JUNIOR YEAR

Fall Semester	Credit		Spring Semester	Credit
PCC 302 Tech Textile Wet Processing	4		GEP Humanities Elective ^C	3
Statistics Elective ³	3		GEP Additional Breadth Requirement ^F	3
FTM 385 Fashion & the Consumer	3		FTM 318 Fashion Development Processes	3
FTM 317 CAD for Fashion	3		ENG 332 Commun for Bus & Mgt ¹	3
FTM 310 Entrepreneurship in Textiles	3		FTM 382 Intermed Tx Brand Mgmt/Mktg	3
	16			15

SENIOR YEAR

Fall Semester	Credit	Spring Semester	Credit
FTM 416 The Fashion Industry	3	FTM 497 Senior Collection Studio or 2 Options ¹	6
FTM 415 Fashion Product Development	3	GEP Social Sciences Elective ^D	3
GEP Interdisciplinary Perspectives Requirement ^G	3	GEP Interdisciplinary Perspectives Requirement ^G	2-3
Option Course (Select 1 from List) ²	3		11-12
GEP Humanities Elective ^C	3		
	15		

Minimum Credit Hours Required for Graduation* ^{I,J,K} :	122
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Major/Program Footnotes:

1. Acceptable substitutions: MA 141 for MA 131 and MA 132; MA 241 or MA 114 for MA 231; PY 205/PY 206 for PY 211; ENG 331 or 333 for ENG 332.

2. List of Options (take FTM 497 and one (1) course from the list below or select 3 courses or 9 or from the list below):

Note: Prerequisites may be required for many of the courses in the options below.

ADN 111, ADN 112, ADN 414, TT 331, TT 431, MT 3XX, FTM 320, FTM 380, FTM 387, FTM 420, FTM 421, FTM 480, FTM 481, FTM 484, FTM 485, FTM 486, FTM 487, FTM 399.

3. Choose one of the following statistics courses: ST 311, ST 361, or ST 370.

***General Education Program (GEP) requirements and GEP Footnotes:**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://oucc.ncsu.edu/gep-courses>.

A. Mathematical Sciences (6 credit hours – one course with MA or ST prefix)

Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: MA 141, MA 131 and 132, MA 231, MA 241, MA 114

B. Natural Sciences (7 credit hours – include one laboratory course or course with a lab)

Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: CH 101, CH 102, PY 211, PY 205

C. Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: None

D. Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: ARE/EC 201

E. Health & Exercise Studies (2 credit hours – at least one 100-level Health & Exercise Studies Course)

Choose from the University approved GEP Health & Exercise Studies course list.

F. Additional Breadth - (3 credit hours to be selected from the following checked University approved GEP course lists)

Humanities/Social Sciences/Visual and Performing Arts

G. Interdisciplinary Perspectives (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: None

H. Introduction to Writing (4 credit hours satisfied by completing ENG 101 with a C- or better)

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. U.S. Diversity (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: None

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may

fulfill this requirement: **None**

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> B.S. Fashion and Textile Management	<u>Plan SIS Code:</u> 18FTMBS
<u>Concentration/Subplan Title:</u> Fashion Development and Product Management	<u>Subplan SIS Code:</u> 18FTMFD
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 7/2017
<u>New Degree Audit required?</u> (Y or N) Y	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.	

MAJOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	<i>GEP category, if applicable</i>
Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.		List GEP category and hours satisfied by a Major requirement
Math MA 131 or MA 141, MA 231 or MA114 or MA 241	6	Mathematical Sciences (6 hours)
Sciences CH 101, CH 102 , PY 205 or PY 211	8	Natural Sciences (7 hours)
Major ACC 210 BUS 320 FTM 217 FTM 220 FTM 282 FTM 310 FTM 382 FTM 385 FTM 416 TMS 211 PCC 302 TT 105 TT 221 TT 252	3 3 3 (CP) 3 3 (CP) 3 3 3 3 3 4 3 2 4	
EC 201 or ARE 201 EC 202 ST 311 or ST 361 or ST 370 ENG 332	3 3 3 3	Social Sciences (3 hours)
Concentration Courses/Groups/Electives: FTM 219 FTM 271 FTM 315 FTM 317 FTM 318 FTM 415 Fashion Electives (3 courses from below):	3 (CP) 3 3 (CP) 3 (CP) 3 (CP) 3 9	

FTM 497, ADN 111, ADN 112, ADN 414, TT 331, TT 431, MT 3XX, FTM 320, FTM 380, FTM 387, FTM 420, FTM 480, FTM 481, FTM 484, FTM 485, FTM 486, FTM 487.		
Free Electives:		
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	96 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): T101	1	
Other:		
Total credit hours under College Requirements:	1 Hour	

<u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u>		At least one of the following must be listed:
<p><i>Courses in the Major and/or Minor may also fulfill a General Education requirement; however, a GEP category may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i></p> <p><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></p>		<ol style="list-style-type: none"> Choose course(s) from the University Approved GEP course list for this category. Minimum requirements are satisfied by Major/College course requirements. Major/College course requirement satisfies X credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category. Co-requisite is satisfied by a Major/College course requirement. Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts. Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
General Education Program Requirements: <i>Minimum 39-40 hrs</i>	Credit hours	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits) (At least 1 course with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	(Choose statement 1, 2 or 3). <i>Minimum requirements are satisfied by Major/College course requirements.</i>
Natural Sciences (7 credits) (At least 1 lab course or course with a lab) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	X	(Choose statement 1, 2 or 3). <i>Minimum requirements are satisfied by Major/College course requirements.</i>
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	6	(Choose statement 1, 2 or 3) <i>Choose course(s) from the University Approved GEP course list for this category</i>
Social Sciences (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 1, 2 or 3) <i>Major/College course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.</i>
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) <i>Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 5 or 6) <i>Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.</i>
Interdisciplinary Perspectives (5 credits) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	5	(Choose statement 1, 2 or 3) <i>Choose course(s) from the University Approved GEP course list for this category</i>
Health and Exercise Studies (2 credits) (Including one Fitness and Wellness course)	2	<i>Choose course(s) from the University Approved GEP course list for this category.</i>

Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.	23 hours	
GEP Co-Requisites:		<i>Courses taken in the Major, GEP, or Minor may double-count to fulfill the co-requisites. Courses that satisfy the U.S. Diversity or Global Knowledge co-requisite are marked on course lists with a "USD" or "GK" indicator.</i>
U.S. Diversity co-requisite (USD)	n/a	<i>(Choose statement 1 or 4)</i> Choose course(s) from the University Approved GEP course list for this category
Global Knowledge co-requisite (GK)	n/a	<i>(Choose statement 1 or 4)</i> Choose course(s) from the University Approved GEP course list for this category
Foreign Language Proficiency	n/a	Proficiency at the FL_102 level required.
The following requirements must be satisfied within the College/Program:		Place an X in the credit hour box to indicate below that the requirement is "Satisfied by College/Program Requirements"
Communication in the Major (Advanced Communication)	X	Satisfied by College/Program Requirements
Technology Fluency	X	Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

To: University Courses and Curriculum Committee

From: Gary B. Blank
Director of Undergraduate Programs

RE: Revision of Forest Management Minor

Date: 30 November 2016

Dr. Richard Braham, Forest Management Minor coordinator, and I have been evaluating and would like to make the following recommendations for consideration by the department, college and university.

The three required courses (FOR 172, FOR 252 and FOR 339) in Option A are appropriate, and no changes are recommended. But the group of elective courses in Option A needs to be changed to strengthen the basic biology provided by the minor. We replace the current list of electives with the following groups of courses (6 credit hours).

Take two of the following three groups of courses (6 hours). FOR 303 may not be double-counted.

- FOR 248 or FOR 414 or FOR 330**
- FOR 260 or FOR 303**
- FOR 303 or FOR 430**

No changes to Option B are recommended. Option B is by far the stronger option, but few students are likely to attend forestry summer camp voluntarily.

Approval Signatures:

Candace Vich

Chair of the CNR Academic Affairs Committee

12-6-2016

Date

Adriana G. Keikema

Dean of the College of Natural Resources

12/6/2016

Date

Chair, University Courses & Curricula Committee

Date

Dean, Undergraduate Academic Program

Date

Forest Management (15FGM) (proposed)

Description

The Department of Forestry and Environmental Resources offers a 15 credit hour minor in Forest Management that is available to all baccalaureate degree students at North Carolina State University except majors in Forest Management. The goals of the minor are to provide elementary knowledge of forest management, appreciation for the value of forest resources, and understanding of the need for sustainable management. The minor is particularly valuable to students majoring in related disciplines.

Requirements

- Requires completion of 15 credit hours, selected from each of two categories in one of the two following options.
- A grade of 'C-' or better is required in all courses in the minor.

OPTION A

Required Courses (9 credit hours)

[FOR 172](#) Forest System Mapping and Mensuration 1 (2 cr)

[FOR 339](#) Dendrology (4 cr)

[FOR 252](#) Introduction to Forest Science (3 cr)

Elective Courses (6 credit hours)

Take two courses from two of the three groups of courses (6 hours). *FOR 303 may not be double-counted.

Group 1:

[FOR 248](#) Forest History, Technology and Society (3 cr) or [FOR 414](#) World Forestry (3 cr)

or [FOR 330](#) North Carolina Forests (3 cr)

Group 2:

[FOR 260](#) Forest Ecology (3 cr) or [FOR 303*](#) Silvics and Forest Tree Physiology (3 cr)

Group 3:

[FOR 303*](#) Silvics and Forest Tree Physiology (3 cr) or [FOR 430](#) Forest Health and Protection (3 cr)

OPTION B

Required Courses (15 credit hours)

[FOR 172](#) Forest System Mapping and Mensuration 1 (2 cr)

[FOR 339](#) Dendrology (4 cr)

Attend Forestry Summer Camp and take the following five courses (9 hours):

[FOR 204](#) Silviculture (2 cr)

[FOR 261](#) Forest Communities (2 cr)

[FOR 264](#) Forest Wildlife (1 cr)

[FOR 265](#) Fire Management (1 cr)

[FOR 273](#) Forest System Mapping and Mensuration II (3 cr)

Elective Courses

NONE

Forest Management (15FGM) (existing)

Description

The Department of Forestry and Environmental Resources offers a 15 credit hour minor in Forest Management that is available to all baccalaureate degree students at North Carolina State University except majors in Forest Management. The goals of the minor are to provide elementary knowledge of forest management, appreciation for the value of forest resources, and understanding of the need for sustainable management. The minor is particularly valuable to students majoring in related disciplines.

Requirements

- Requires completion of 15 credit hours, selected from each of two categories in one of the two following options.
- A grade of 'C-' or better is required in all courses in the minor.

OPTION A

Required Courses (9 credit hours)

[FOR 172](#) Forest System Mapping and Mensuration 1 (2 cr)

[FOR 339](#) Dendrology (4 cr)

[FOR 252](#) Introduction to Forest Science (3 cr)

Elective Courses (6 credit hours)

Take any two (2) of the following courses:

[FOR 248](#) Forest History, Technology and Society (3 cr)

[FOR 260](#) Forest Ecology (3 cr)

[FOR 303](#) Silvics and Forest Tree Physiology (3 cr)

[FOR 330](#) North Carolina Forests (3 cr)

[FOR 353](#) Air Photo Interpretation and Photogrammetry (3 cr)

[FOR 414](#) World Forestry (3 cr)

[NR 460](#) Renewable Natural Resource Management and Policy (3 cr)

OPTION B

Required Courses (15 credit hours)

[FOR 172](#) Forest System Mapping and Mensuration 1 (2 cr)

[FOR 339](#) Dendrology (4 cr)

Attend Forestry Summer Camp and take the following five courses (9 hours):

[FOR 204](#) Silviculture (2 cr)

[FOR 261](#) Forest Communities (2 cr)

[FOR 264](#) Forest Wildlife (1cr)

[FOR 265](#) Fire Management (1 cr)

[FOR 273](#) Forest System Mapping and Mensuration II (3 cr)

Elective Courses

NONE