



University Courses & Curricula Committee 2018-2019

November 28, 2018
 Talley Student Union 5101
 12:45pm-2:45pm

Call to Order 12:45pm

- Welcome from Chair Marta Klesath
- Remarks and Updates from OUCCAS/DASA
- Approval of UCCC November 7th 2018 Minutes
- Course and Curricular Business

New Business

Consent Agenda		
Action	Type	Notes
AES 432 Agricultural and Environmental Safety and Health	Minor	Revisions: Requisites
AES 443 Environmental Restoration Implementation	Minor	Revisions: Requisites
BAE 200 Computer Methods in Biological Engineering	Minor	Revisions: Requisites
BAE 302 Transport Phenomena	Minor	Revisions: Requisites
BAE 361 Analytical Methods in Engineering Design	Minor	Revisions: Requisites, grading, description
BAE 371 Fundamentals of Hydrology for Engineers	Minor	Revisions: Requisites
BAE 474 Principles and Applications of Ecological Engineering	Minor	Revisions: Requisites
EC/ARE 301 Intermediate Microeconomics	Minor	Revisions: Requisites, description
ECE 480 Senior Design Project in Electrical Engineering	Drop	Drop
ECE 481 Senior Design Project in Computer Engineering	Drop	Drop
ET 410 Toxic Substances and Society	Drop	Drop
ET 252 Introduction to Spatial Technologies	Drop	Drop
ET 470 Environmental Forensics	Drop	Drop
ET 490 Senior Seminar in Environmental Technology	Drop	Drop
HESD 233 Clogging	Drop	Drop
HS 432/(532) Introduction to Permaculture	Minor	Revisions: term offering, description
ISE 498 Senior Design Project	Minor	Revisions: Requisites
24DANM Dance Minor	Minor	Revisions: removing dropped course and independent study course
English (BA) Language, Writing, and Rhetoric (16ENGLBA-16ENGLLWR)	Minor	Revisions: adding one course
Foreign Language and Literatures (BA) French Studies	Minor	Revisions: concentration title, removing 1 course
16PCM Psychology Minor	Minor	Revision: Adding clarification to required courses
Statistics BS (14STBS)	Minor	Revisions: 120 credit hour memo; removing free electives

College of Sciences			
Presenter	Reviewers	Action	Type
Planchart	Bruce, Merrill, Hessling	Microbiology BS (17MBIOBS) and 3 subplans: 11MBIOMB; 17BMIOHS; 17MBIOMBR	Revisions: 120 credit hours

College of Humanities and Social Sciences			
Presenter	Reviewers	Action	Type
Driscoll	Domingue, Muse, Roise	FLF 425/(525) Literature, Cinema and Culture of the Francophone World	Revisions: SLOs, grading, eval methods
Driscoll	Krause, Reynolds, Planchart	HI 251 American History I	Revisions: Title, SLOs, description
Despain	Hessling, Orphanides, Hergeth	Linguistics Minor (16LIM)	Revisions
Despain	Bruce, Griffin Hillis, Seracino	16ARTSTBA –All Subplans; 16ARTSTFLM, 16ARTSTMUS, 16ARTSTTHE, 16ARTSTVIS	Revisions

College of Agriculture and Life Sciences			
Presenter	Reviewers	Action	Type
Bruce	Despain, Krause, Muse	AES 135 Introduction to Precision Agriculture	New Course
Bruce	Panchart, Reynolds, Carlson Welch	BAE 451 Engineering Design I	Revisions: SLOs, component type, requisites
Bruce	Driscoll, Kuzenski, Seracino	BAE 452 Engineering Design II	Revisions: SLOs, component type, requisites, description
Bruce	Roise, Hergeth, Rieder	HS 420/(520) Green Infrastructure	New Course
Merrill	Orphanides, Griffin Hillis, Kilbourne	HS 476/(576) Crop Physiology and Production in Controlled Environments	New Course
Merrill	Driscoll, Rieder, Kilbourne	Horticultural Science (BS) Science	Revisions: 120 credit hours (revised concentration title: Plant Breeding and Biotechnology in Horticulture)
Merrill	Orphanides, Krause, Despain	Horticultural Science (BS) Technology, General Horticulture	Revisions: 120 credit hours (revised concentration title: Production Systems and Entrepreneurship in Horticulture)
Merrill	Griffin Hillis, Planchart, Domingue	Horticultural Science (BS) Technology, Landscape Design	Revisions: 120 credit hours (revised concentration title: Landscape Design, Gardens & Urban Environments)

College of Engineering			
Presenter	Reviewers	Action	Type
Kanton	Merrill, Muse, Roise	CHE 450 Chemical Engineering Design I	Revisions: SLOs, eval methods, reqs
Kanton	Bruce, Kuzenski, Seracino	CSC 415 Software Security	New Course
Seracino	Merrill, Planchart, Hergeth	ISE 352 Fundamentals of Human-Machine Systems Design	Revisions: SLOs,

Additional Information	
Sustainable Energy Minor- Temporarily No New Admittance	Ownership change from UC to CNR

SLO= Student Learning Outcomes

Discussion:

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.

SLO = Student Learning Outcomes



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University Courses and Curricula Committee

November 7, 2018
Talley Student Union 5101
Call to Order: 12:49 pm

Members Present: Chair Marta Klesath, Rudi Seracino(chair-elect), Past Chair Helmut Hergeth, Jackie Bruce, Melissa Merrill, Scott Despain, Catherine Driscoll, Kathleen Rieder, Peter Hessling, Kanton Reynolds, John Kuzenski, Joseph Roise, Antonio Planchart, Wendy Krause, Annie Carlson Welch, Peggy Domingue, Andreas Orphanides, Antonio Planchart, Berkley Griffin Hillis, Spencer Muse

Members Absent: Katy Kilbourne

Guests: Jennifer Capps, Jason DeRousie, Julieta Sherk, David Crouse

Ex-Officio Members Present: Lexi Hergeth, Li Marcus, Jordan Luzader, Tim Petty, John Harrington, Kyle Pysher

WELCOME AND INTRODUCTIONS

- **Remarks from Chair** - Welcomed the committee members introduced guests.
- **Remarks from OUCCAS/DASA-** Li Marcus reminded the committee that the board of trustees will meet on November 15, 2018, and any results or information from that meeting (such as approval/denials of 120-credit hour exception requests) may come from Dr. Mullen, Dr. Smith, or Li Marcus.
- **Approval of the Minutes from October 24th 2018** – Approved Unanimously
 - Discussion: Member Catherine Driscoll moved to approve.

OLD BUSINESS

- **HS 491 Sustainable Agriculture Entrepreneurship Study Abroad** (Previously Tabled at September 26, 2018 Meeting) - Approved with Friendly Suggestion
Discussion: Member Jackie Bruce presented the new course and provided the items for which the action was tabled. Member made the friendly suggestion to fix the link going to the safety and risk page.
- **SSC 410 Soil Judging for Land Evaluation** (Previously Tabled at April 25, 2018 Meeting) - Approved Unanimously
Discussion: Member Jackie Bruce presented the new course and provided the items for which the action was tabled. Member asked about the contact hours, asking if the three hours of fieldwork would put the contact hours over the one credit hour. Guest David Crouse indicated that the employers they work with believe this 1 credit hour course is the most important for the students in terms of future preparation for their careers. As such, members concluded that as long as students are okay with doing the extra work for fieldwork (which would put the course slightly over 1 credit) that that is alright. Li Marcus confirmed that a problem arises primarily when a course's contact hours are under the credit hour expectation, rather than over. Member asked how the travel aspect will work, XONV members discussed that this can't be coded into SIS, but would be indicated in the syllabus and communicated by the instructor. The Chair thanked the guest for attending and providing insight that helped the motion pass smoothly.

NEW BUSINESS

- **Consent Agenda** (ACC420,BAE425(525),435(535),478(578),BUS458,459,HI411(511),LOG437(537),BUSEcon,13EDGENBS,13ELMEDSTM) - Approved Unanimously
Discussion: Member Wendy Krause moved to approve.
- **Art and Design (Bachelor) (12ADNB)** - Approved Unanimously
Discussion: Member Kathleen Rieder presented the curricular action.
- **Kathleen Rieder motioned to combine the 5 Design curricular actions**
Member made the friendly suggestion to make sure the number in the format A display to match the footnotes for the display. All Approved with Friendly Suggestions.
 - **Design Studies (BS) 12DSBA** - Approved with Friendly Suggestions
Discussion: Member Kathleen Rieder presented the curricular action.
 - Design Studies (BS) 12DSBA-12DSBUS** -
Discussion: Member Kathleen Rieder presented the curricular action.
 - Design Studies (BS) 12DSBA Nonprofit Studies** -
Discussion: Member Kathleen Rieder presented the curricular action.

Graphic Design -

Discussion: Member Kathleen Rieder presented the curricular action. Member asked if the new format can be supported and the presenter confirmed.

Industrial Design -

Discussion: Member Kathleen Rieder presented the curricular action.

- **Applied Mathematics (BS) Financial Mathematics 17AMATHBS-17AMATHFIN - Approved Unanimously**
Discussion: Member Tony Planchart presented the curricular action. Member asked whether there was enough variety in course offerings for a student to take exactly 5 credits of free electives. Members confirmed that because free electives include all courses at the University, a student would be able to take exactly 5 credit hours.
- **Marine Sciences(BS) Meteorology 17MARSCBS-17MARSCMET - Approved Unanimously**
Discussion: Member Spencer Muse presented the curricular action.
- **EI 495 Independent Study in Entrepreneurship - Approved with Friendly Suggestion**
Discussion: Member Annie Carlson Welch presented the new course action. Member complimented the completed sample contract. Member referenced the outcomes in CIM, "varies per offering", and asked if there are overarching outcomes, guest Jennifer Capps responded that they are in the process of creating a course with overarching outcomes but that this course will be more individualized for the student. A friendly suggestion to make a place for specificity in the contract, other member indicated what is written would likely be specific to the student and wouldn't be the same for everyone. Guest asked for examples from the member to evaluate the incorporation of the learning outcomes.
- **USC 298 Special Topics in University Studies - Approved Friendly Suggestion**
Discussion: Member Peggy Domingue presented the course action. Members discussed changing the requisite from "varies per offering" to "instructor consent". Member indicated this would be a friendly suggestion to remove the requisite.
- **CSC 419/(519) DevOps Modern Software Engineering Practices - Approved Pending with Friendly Suggestions**
Discussion: Member Rudi Seracino presented the course action. Motion to approve the course pending a single syllabus, calculation of the final grade (10 points in undergrad), the grading components are not matching in the syllabus and CIM, DRO statement needs to be up to date, the academic integrity statement should have "will result in 'reporting the student to student conduct and we will recommend a grade of a zero...'", the description should indicate that credit cannot be given for both the undergrad and graduate levels. Member indicated grad students would benefit from this information, members discussed that students who meet a requirement won't see the requisite statement during enrollment, but the statement would be visible in the course catalog. Member also indicated the hyperlinks for incomplete grades, academic integrity, and other hyperlinks are broken and should be fixed. The requisite section indicates "knowledge of at least one high level programming language", this wouldn't be seen in the enrollment wizard but in the catalog and should be left in the requisites field. Members recommended separating the undergrad and graduate prerequisites, friendly suggestion to bring CSC 510 into the graduate requisites field with the knowledge statement.
- **M 100 Personal and Professional Identity Development - Approved Pending**
Discussion: Member John Kuzenski presented the course action. Member asked if 1 hour for 12 weeks will calculate, the contact hours will be 1.75 instead of 1. Motion to amend to approved pending the adjustment of the contact hours to accurately reflect the course.
- **M 120 Professional Development and Career Planning - Approved Pending**
Discussion: Member John Kuzenski presented the new course action. Member indicated some of the student learning outcomes need adjustments "learn to navigate" removing learn to, 5, 7, and 8. A member made the friendly suggestion to update the DRO statement and including the 6 polices (2.17). Motion to amend the motion from approved to approved pending the adjustment to the student learning outcomes. Member indicated the DRO statement needs to be adjusted again to 'Holmes Hall' as it has recently been renamed. Member recommended fixing the anti-discrimination statement hyperlink. Pending the adjustment of the contact hour adjustment, removing teaching methodologies from learning outcomes, updating policies and hyperlinks.
- **Mathematics Education (13MTHEDBS) Sub plans (3): -13MTHEDBS, -13MTHEBDS, -13MTHEBDSM - Approved Unanimously**
Discussion: Member Peter Hessling presented the curricular action. Member commented on the 4 sub plans indicating the GEP interdisciplinary perspectives Requisite isn't 2-3 hours for the university regulation, members decided it would be appropriate to use the minimum and only put '2'. Members recollected the past discussion in which the committee indicated the minimum possibility could be provided. Member indicated the removal of E 115 which is a requisite for

other required computer science courses. Chair asked the members if they would like to remove 13MTHEDCPS to vote on the remainder. Member motioned to separate the computer science concentration, which the committee approved.

- o **The other 3 sub plans -13MTHEDMS, -13MTHEDST, -13MTHEDMSM** – Approved with Friendly Suggestion
- o **13MTHEDCPS** - Tabled with Friendly Suggestion

Member Wendy Krause motioned to amend the motion to approve pending the clarification of the credit hours given the co-requisite status of E 115. As this course cannot be removed, Member Wendy amended her motion to table the Mathematics Education Computer Science concentration action. Member indicated the 1 credit hour stat 307 may not be needed.

- **Science Education (BS): (5 Sub plans) - Approved with Friendly Suggestion**
 - Biology (9-12 Licensure) (13SCIEDBS-13SCIEDBIO)**;-Member indicated there is a large credit hour difference between the first semester and the second in the sophomore year. Member made the friendly suggestion to balance the credit hours in the sophomore year.
 - Chemistry (9-12 Licensure) (13SCIEDBS-13SCIEDCH)**; -
 - Earth Science (9-12 Licensure) (13SCIEDBS-13SCIEDES)**;
 - Middle Grades Science (13SCIEDBS-13SCIEDMID)**;
 - Physics (9-12 Licensure) (13SCIEDBS-13SCIEDPY)**;Discussion: Member Peter Hessling presented the curricular action.
- **Technology, Engineering, & Design Education (BS) Licensure (13TDEBS-13TDEEDL) - Approved Unanimously**
Discussion: Member Peter Hessling presented the curricular action.
- **Technology, Engineering, & Design Education (BS) Graphic Communications (13TDEBS-13TDEGC) – Tabled with Friendly Suggestion**
Discussion: Member Peter Hessling presented the curricular action. Member indicated this is one credit hour shy of the 120 credit hour minimum requirement. Member motioned to table the action because of the requirement. Members suggested meeting the 120 credit hour minimum by increasing the free elective from 3 to 4 credit hours. Li Marcus confirmed that between SACS accreditation and UNC- System Office standards, all undergraduate programs subject to the 120-hour mandate should be exactly 120 hours.
- **PS 342 Politics of China and Japan - Approved Pending**
Discussion: Member Scott Despain presented the course action. Assessment XONV member indicated the third student learning outcome isn't measurable. Member indicated the USD second outcome would work. Member motioned to amend the motion from approved to approved pending making the third student learning outcome measurable.
- **REL 331 The Hindu Tradition - Approved with Friendly Suggestion**
Discussion: Member Scott Despain presented the course action. Member made the friendly suggestion to provide what will happen if the students do not turn in assignments on time. Members discussed how the participation and attendance points calculate and concluded students shouldn't miss more than 2 classes to maintain the attendance portion. Suggestion to provide the penalty for turning in late assignments.
- **REL 332 The Buddhist Traditions - Approved Unanimously**
Discussion: Member Scott Despain presented the course action.
- **REL 333 Chinese Religions - Approved Unanimously**
Discussion: Member Scott Despain presented the course action.
- **REL 334 Japanese Religions - Approved Unanimously**
Discussion: Member Scott Despain presented the course action.
- **REL 350 Introduction to Judaism - Approved Unanimously**
Discussion: Member Scott Despain presented the course action.
- **REL 383 Religion, Globalism, and Justice - Approved Friendly Suggestion**
Discussion: Member Scott Despain presented the course action. Member brought attention to the syllabus and made the friendly suggestion to format the headings and text for clarity. Member indicated the participation rubric is on a letter grade scale which may not provide information on how to obtain 100% participation points. Member made the friendly suggestion to indicate "A+" which would be assumed as 100%.
- **REL 482 Religion and Conflict - Approved with Friendly Suggestion**
Discussion: Member Scott Despain presented the course action. Member brought attention to the small wording

change in the student learning outcome match in CIM and the Syllabus but not matching the GEP which is acceptable. Member made a friendly suggestion to complete the sentences in the catalog description. Member asked if the student happens to not submit an assignment on Friday, submitting on Monday counts as one day late but if the assignment is due on a Monday the following Tuesday would result in the same penalty. Members indicated this is up to the instructor, and is therefore a friendly suggestion.

- **FLF 301 Survey of French Literature from the Middle Ages through the Enlightenment - Approved Pending**
Discussion: Member Catherine Driscoll presented the course action, moving to approve pending the correction of zero contact hours.
- **FLI 318 Italian Society Through Cinema - Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course action.
- **HI 207 Ancient Mediterranean World - Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course action.
- **HI 208 The Middle Ages - Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course action.
- **HI 215 Latin America to 1826 - Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course action. Member asked if the grading components indicating quizzes needs clarification on the number of unannounced quizzes, members indicated they do not.
- **HI 216 Latin America Since 1826 - Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course action.
- **HI 221 British History to 1688 - Approved with Friendly Suggestions**
Discussion: Member Catherine Driscoll presented the course action. Member made a friendly suggestion to make the syllabus and CIM match (35%).
- **BAE 472/(572) Irrigation and Drainage - Approved with Friendly Suggestions**
Discussion: Member Jackie Bruce presented the course action. Member recommended updating the DRO statement and to fix the typos in the syllabus. Member made the friendly suggestion that the catalog description use complete sentences.
- **HS 433/(533) Public Garden Administration - Approved Unanimously**
Discussion: Member Melissa Merrill presented the course action.
- **Notification:** Accounting and Economics Minors-Adjusting Declaration Process; the committee was notified without additional comments or questions.

Meeting adjourned at 2:47 pm

Respectfully submitted by Lexi Hergeth

1. Statement of Justification

HES proposes dropping DAN 498 Independent Study in Dance as an elective from the minor. While a specific Independent Study may be an appropriate addition for a student in the minor, it would need to be evaluated on an individual basis. Almost every other minor at NC State does not include an Independent Study as an elective in its curricula. The minor revision also includes the removal of HESD 233 Clogging because this course has not been taught since Fall 2014 and is being dropped from HES course offerings.

2. Statement of Academic Minor Program Objectives

A primary goal of the minor is to educate the student to be articulate in the visual and physical spheres of dance and to be able to write and to speak clearly about dance. The student should develop an ability to see his or her own art work within the context of the larger field of dance, and then in relation to general art aesthetics.

The minor is designed to avoid the polarization of the creative and performance aspects of dance on the one hand and the historical and theoretical aspects on the other. All students interested in and passionate about dance are encouraged to apply to the minor. No audition is required.

Student learning outcomes

At the completion of this minor, students will be able to

- Analyze and discuss dance in global and historical contexts.
- Apply concepts, methods, theories, and practices learned in the courses to situations outside of and in integration with other disciplines.
- Competently perform 2 different forms of dance at the intermediate level.
- Use a broad mastery of the cultural and economic environment of dance to create successful dance and dance-related ventures.

3. Current List of Courses constituting the Minor

Theory (6 hours):

Choose 2:

HESM 322 Dance and Society (3cr.)
HESM 324 Concert Dance History (3cr.)
HESM 326 Current Trends in Dance (3cr.)

Creative (4-6 hours):

Required:

HESM 320 Movement Improvisation (1cr.)

Choose 2 additional courses:

DAN 272 Dance Composition I (1cr.) (prereq. HESM 230)
DAN 498 Independent Study in Dance (1-3cr.) (prereq. DAN 272 or DAN 295)
HESM 328 Dance Composition II (2cr.) (prereq. DAN 272)
HESM 330 Introduction to Bartenieff Fundamentals and Laban Movement Analysis (2cr.)
HESM 332 Dance and Technology (2cr.)

Practice (4-5 hours):

Choose 2 courses in practice/performance:

HESD 227 African Dance (1cr.)
HESD 230 Horton Dance Technique (1cr.)
HESD 233 Clogging (1 cr.)
HESD 234 Country Dance (1 cr.)
HESD 240 Social Dance (1cr.)
HESD 263 Tap Dance (1cr.)
HESD 264 Ballet (1cr.)
HESD 273 Jazz Dance (1cr.)
HESD 274 Modern Dance I (1cr.)
DAN 260 Hip Hop Dance (1cr.)
DAN 210 Current Trends in Afrocentric and World Dance (1cr.) (prereq. Audition)
DAN 295 Problems of Dance Performance (2cr.) (prereq. Audition)

Choose 2 technique courses:

HESD 241 Social Dance II (1cr.) (prereq. HESD 240)

HESD 265 Ballet II (1cr.) (prereq. HESD 264)
HESD 275 Modern Dance II (1cr.) (prereq. HESD 274)
HESD 280 Jazz Dance II (1cr.) (prereq. HESD 273)

Capstone course (1 hour):

HESM 304 Dance Practicum (1cr.)

4. Proposed List of Courses constituting the Minor

Theory (6 hours):

Choose 2:

HESM 322 Dance and Society (3cr.)
HESM 324 Concert Dance History (3cr.)
HESM 326 Current Trends in Dance (3cr.)

Creative (4-6 hours):

Required:

HESM 320 Movement Improvisation (1cr.)

Choose 2 additional courses:

DAN 272 Dance Composition I (1cr.) (prereq. HESM 230)
HESM 328 Dance Composition II (2cr.) (prereq. DAN 272)
HESM 330 Introduction to Bartenieff Fundamentals and Laban Movement Analysis (2cr.)
HESM 332 Dance and Technology (2cr.)

Practice (4-5 hours):

Choose 2 courses in practice/performance:

HESD 227 African Dance (1cr.)
HESD 230 Horton Dance Technique (1cr.)
HESD 234 Country Dance (1 cr.)
HESD 240 Social Dance (1cr.)
HESD 263 Tap Dance (1cr.)
HESD 264 Ballet (1cr.)
HESD 273 Jazz Dance (1cr.)
HESD 274 Modern Dance I (1cr.)
DAN 260 Hip Hop Dance (1cr)
DAN 210 Current Trends in Afrocentric and World Dance (1cr.) (prereq. Audition)
DAN 295 Problems of Dance Performance (2cr.) (prereq. Audition)

Choose 2 technique courses:

HESD 241 Social Dance II (1cr.) (prereq. HESD 240)
HESD 265 Ballet II (1cr.) (prereq. HESD 264)
HESD 275 Modern Dance II (1cr.) (prereq. HESD 274)
HESD 280 Jazz Dance II (1cr.) (prereq. HESD 273)

Capstone course (1 hour):

HESM 304 Dance Practicum (1cr.)

5. Catalog Description of the Minor

The Department of Health and Exercise Studies offers a 16 credit hour Dance Minor that is designed for students who wish to delve deeper into dance studies in an intellectual, creative, and practical capacity to propel them forward in career, service, and artistry. The coursework is balanced between theory courses, creative inquiry, and technical proficiency. The student has the opportunity to select the specific courses which best fulfill his/her needs while maintaining an overall balance. A student in the dance minor may be preparing for graduate study or for work as a performer, choreographer, educator, or dance therapist. The dance minor also enhances students' studies as they prepare for careers and service as arts entrepreneurs or administrators, physical therapists, physicians, or in disciplines such as Africana studies, design, film, and engineering.

6. Administration of the Minor

Autumn Belk, Teaching Associate Professor, Dance Minor Coordinator, autumn_belk@ncsu.edu

7. Requirements for Completion of the Minor

The dance minor requires the completion of 16 credit hours.

Students must obtain a grade of "C-" or better in each of the required and elective courses.

Students may not take minor coursework on a credit only (pass/fail) or S/U basis.

Students must attain a minimum overall GPA of 2.0 in the minor.

The program coordinator will certify the minor prior to graduation.

A minimum of 12 of the 16 required credit hours must be completed at NC State.

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

DAN 498 is housed in the Music Department, as are the other DAN courses currently included in the Dance Minor. The result of our consultation follows:

August 27, 2018

Beth,

I am not sure where this stands, but wanted to get you an official response in case you needed it:

The Music Department is grateful for the opportunity to consult on the request. We concur that an independent study course that might range in topics should not be included as a standing elective and have no objection to its removal from the elective options in the dance minor. However, we would like to encourage HES to continue to allow the course on a case by case basis and when the content is appropriate to be included as a substituted elective. This course has been historically used as a way for students to produce their choreographic works leading to a performance in a formal concert setting and can be a valuable way for a student to have guided mentoring from the beginning of the choreographic process through tech and performance. It may also offer an alternative to Dance Composition II, if their schedule does not allow them to take it.

Cheers

Dan

Daniel G. Monek, Ph.D.
Professor and Department Head
Music Department

Memo – Minor Action

To: Undergraduate Courses and Curriculum Committee

From: Jason Swarts, Director of Undergraduate Programs in English

Date: February 27, 2018

Subject: Digital Technologies courses for the Language, Writing, and Rhetoric concentration (16ENGLWR) in English (16ENGLBA)

Please add ENG 482 Reading in the Digital Age to the list of approved classes that students in the Language, Writing, and Rhetoric concentration may take in fulfillment of the Digital Technologies requirement.

Justification: The addition of ENG 482 will provide students in this concentration more options to fulfill the Digital Technologies requirement. The content of ENG 482 is decidedly focused on studying the uses of digital technologies in reading and writing.

The English department expects to offer ENG 482 annually.

The proposed effective date for this change is Fall 2018.

English (BA): Language, Writing, and Rhetoric (16ENGLBA-16ENGLLWR)

Current

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	Credit	Spring Semester	Credit
ENG 101 ^H	4	American Literature ⁸	3
Foreign Language 201 ^{6,K}	3	History II ²	3
History I ^{1,C}	3	Arts and Letters ⁴	3
GEP Math ^A	3	GEP Mathematics ^A	3
Social Science ^{5,D}	3	Social Science ^{5,D}	3
		HES_*** Health & Exercise Studies Course ^E	1
	16		16

Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
Philosophy ^{3,C}	3	World Literature ¹⁰	3
Social Science ⁵	3	LWR course in Digital Tech. ¹⁵	3
GEP Natural Science Req. ^B	4	GEP Natural Science Req. ^B	3
British Literature ⁹	3	Social Science ⁵	3
LWR course in effective comm. ¹⁴	3	Free Elective ⁷	3
		HES_*** Health & Exercise Studies Course ^E	1
	16		16

Junior Year

Fall Semester	Credit	Spring Semester	Credit
English Elective ¹⁷	3	Rhetoric ¹³	3
Linguistics ¹²	3	Film Core ¹¹	3
LWR Elective ¹⁶	3	GEP Addit. Breadth (Nat.Sci/Math) ^F	3
GEP Interdis. Persp. Req. ^G	3	GEP Interdis. Persp. Req. ^G	2-3
Free Elective ⁷	3	LWR Elective ¹⁶	3
	15		14-15

Senior Year

Fall Semester	Credit	Spring Semester	Credit
LWR Elective ¹⁶	3	Free Elective ⁷	12
English Elective ¹⁷	3		
Free Elective ⁷	9		
	15		12

Minimum Credit Hours Required for Graduation*^{I,J,K, 18,19}

120

Major/Program Footnotes

1. **History I** One three (3) credit hour course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western).
2. **History II** One three (3) hour course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture).
3. **Philosophy** Any PHI course on the approved GEP-Humanities list.
4. **Arts and Letters** One three (3) course is required from the College-approved Arts & Letters course list.
5. **Social Sciences** Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list.
6. **Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination.
7. **Free Electives** Twelve (12) credit hours of free electives may be taken for credit only (S/U).
8. **American Literature** One three (3) credit hour course from department approved list.
9. **British Literature** One three (3) credit hour course from department approved list.
10. **World Literature** One three (3) credit hour course from department approved list.
11. **Film** One three (3) credit hour course from department approved list.
12. **Linguistics** One three (3) credit hour course from department approved list.
13. **Rhetoric** One three (3) credit hour course from department approved list.
14. **Effective Communication** One three (3) credit hour course from department approved list.
15. **Digital Technologies** One three (3) credit hour course from department approved list.
16. **LWR (Language, Writing & Rhetoric) Electives** Three, three (3) credit hour courses (9 credit hours total), selected from department approved lists among the areas of Linguistics, Rhetoric, Effective Communication, Creative Writing and Screenwriting and Digital Technologies.
17. **English Electives** Two, three (3) credit hour courses, total six (6) credit hours, from department approved list.
18. **Major Residency Requirements** Minimum of fifteen (15) credit hours of English/Film courses must be completed at NC State.
19. **Major Grade Point Average (MGPA) Requirements** Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA and overall GPA is required for graduation.

*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 <https://oucc.dasa.ncsu.edu/general-education-program/>.

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:

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:

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: **College History I and Philosophy requirements fulfill 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: **College Social Science requirement fulfills this requirement.***

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 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.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: **X** Proposed Effective Semester: **2188**

Degree/Plan Title: **BA/English**

Concentration/Subplan Title: **Language, Writing and Rhetoric**

Plan SIS Code: **16ENGLBA**

Subplan SIS Code: **16ENGLLWR**

New Degree Audit required? (Y or N) **N**

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	American Literature ⁸	3
Foreign Language 201 ^{K, 6}	3	History II ²	3
History I ^{C, 1}	3	Arts and Letters ⁴	3
GEP Mathematics ^A	3	GEP Mathematics ^A	3
Social Science ^{D, 5}	3	Social Science ^{D, 5}	3
	<i>Total:16</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Philosophy ^{C, 3}	3	World Literature ¹⁰	3
Social Science ⁵	3	LWR Digital Technologies Course ¹⁵	3
GEP Natural Science w/ Lab ^B	4	GEP Natural Science Requirement ^B	3
British Literature ⁹	3	Social Science ⁵	3
LWR Effective Communication Course ¹⁴	3	Free Elective ⁷	3
	<i>Total:16</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
English Elective ¹⁷	3	Rhetoric ¹³	3
Linguistics ¹²	3	Film Core ¹¹	3
LWR Elective ¹⁶	3	GEP Additional Breadth (MS/NS/E) ^F	3
GEP Interdisciplinary Perspectives ^G	3	GEP Interdisciplinary Perspectives ^G	2
Free Elective ⁷	3	LWR Elective ¹⁶	3
	<i>Total:15</i>	GEP HESF 1** Fitness & Wellness ^E	1
			<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
LWR Elective ¹⁶	3	Free Electives ⁷	12
English Elective ¹⁷	3	GEP HES *** Health & Exercise Studies ^E	1
Free Electives ⁷	9		
	<i>Total:15</i>		<i>Total:13</i>
Minimum Credit Hours Required for Graduation ^{*I, J, K, 18, 19:} 120			

Major/Program Footnotes:

- History I** One three (3) credit hour course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western).
- History II** One three (3) hour course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture).
- Philosophy** Any PHI course on the approved GEP-Humanities list.
- Arts and Letters** One three (3) course is required from the College-approved Arts & Letters course list.
- Social Sciences** Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list.
- Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination.
- Free Electives** Maximum twelve (12) credit hours of free electives may be taken for credit only (S/U).
- American Literature** One three (3) credit hour course from department approved list.

9. **British Literature** One three (3) credit hour course from department approved list.
10. **World Literature** One three (3) credit hour course from department approved list.
11. **Film** One three (3) credit hour course from department approved list.
12. **Linguistics** One three (3) credit hour course from department approved list.
13. **Rhetoric** One three (3) credit hour course from department approved list.
14. **Effective Communication** One three (3) credit hour course from department approved list.
15. **Digital Technologies** One three (3) credit hour course from department approved list.
16. **LWR (Language, Writing & Rhetoric) Electives** Three, three (3) credit hour courses (9 credit hours total), selected from department approved lists among the areas of Linguistics, Rhetoric, Effective Communication, Creative Writing and Screenwriting and Digital Technologies.
17. **English Electives** Two, three (3) credit hour courses, total six (6) credit hours, from department approved list.
18. **Major Residency Requirements** Minimum of fifteen (15) credit hours of English/Film courses must be completed at NC State.
19. **Major Grade Point Average (MGPA) Requirements** Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA is required for graduation.

***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:
 - 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:
 - 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
 - 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: Minimum requirements are satisfied by College Social Sciences requirement.
 - 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)
_____ 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.

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> BA/English	<u>Plan SIS Code:</u> 16ENGLBA
<u>Concentration/Subplan Title:</u> Language, Writing & Rhetoric	<u>Subplan SIS Code:</u> 16ENGLLWR
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2188
<u>New Degree Audit required?</u> (Y or N) N	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses that 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
C- wall		
No more than five (5) 200-level courses may apply to major requirements.		
ENGLISH CORE		
American Literature (Requirement 000022579) AFS 248, 448; ECI 405; ENG 248, 249, 252, 265, 266, 305, 368, 369, 370, 372, 376, 399, 405, 420, 448, 466, 467, 468, 469, 476, 548, WGS 305	3	
British Literature (Requirement 000022580) ENG 251, 255, 261, 262, 361, 362, 385, 390, 439, 449, 451, 452, 453, 460, 462, 463, 464, 465, 486, 487, 490	3	
World Literature (Requirement 000022581) AFS 349; CLA 210, 320; ENG 219, 220, 221, 222, 223, 224, 246, 275, 349, 392, 393, 394, 406, 407, 466; FL 219, 220, 221, 222, 223, 224, 246, 392, 393, 394, 406, 407, FLF 301, 302, 414, 425; FLG 320, 323, 325; FLJ 342, 344, 345; FLN 301, 302, 401; FLR 303, 304; FLS 341, 342, 343, 351, 352, 353	3	
Film (Requirement 000022582) AFS 375, COM 364, 374, ENG 282, 292, 330, 359, 364, 374, 375, 378, 382, 384, 492, IDS 496	3	
Linguistics (Requirement 000022583) ENG 210, 324, 325, 326, 327, 328, 494, 524, 525, WGS 327	3	
Rhetoric (Requirement 000022584) COM 321, 395, 411, 451, ENG 321, 323, 395, 411, 422, 425, 426, 455	3	

<p>LANGUAGE, WRITING & RHETORIC CONCENTRATION</p> <p>Effective Communication (Requirement 000026049) ENG 201, 214, 292, 314, 316, 317, 323, 350, 381, 416, 417, 421</p> <p>Digital Technology (Requirement 00026050) COM 395, ENG 216, 314, 317, 395, 421, [add ENG 482]</p> <p>LWR Electives (Requirement 000026501) <i>Linguistics - ENG 210, 324, 325, 326, 327, 328, 494, 524, 525, WGS 327</i> <i>Rhetoric - COM 321, 395, 411, 451, ENG 321, 323, 395, 411, 422, 425, 426, 455</i> <i>Effective Communication - ENG 201, 214, 292, 314, 316, 317, 323, 350, 381, 416, 417, 421</i> <i>Creative Writing/Screenwriting – ENG 287, 288, 289, 330, 430, 488, 489, 499</i> <i>Digital Technology - COM 395, ENG 216, 314, 317, 395, 421, [add ENG 482]</i></p> <p>English Electives (Requirement 000026052) ENG 200-Level or Above AFS 248, 349, 375, 448, 548, COM 321, 364, 374, 395, 411, 506, 514, 516, 554, 581, ECI 405, ENG 201, 206, 207, 208, 210, 214, 216, 219, 220, 221, 222, 223, 224, 232, 233, 246, 248, 249, 251, 252, 255, 260, 261, 262, 265, 266, 267, 275, 281, 282, 287, 288, 289, 292, 298, 305, 314, 315, 316, 317, 321, 323, 324, 325, 326, 327, 328, 330, 331, 332, 333, 335, 339, 340, 341, 342, 349, 350, 359, 361, 362, 364, 368, 369, 370, 372, 374, 375, 376, 377, 378, 380, 381, 382, 384, 385, 388, 389, 390, 391, 392, 393, 394, 395, 399, 400, 405, 406, 407, 410, 411, 416, 417, 420, 421, 422, 425, 426, 430, 439, 448, 449, 451, 452, 453, 455, 459, 460, 462, 463, 464, 465, 466, 467, 468, 469, 470, 476, 480, 481, 482, 483, 486, 487, 488, 489, 490, 491, 492, 494, 495, 496, 498, 499, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 522, 523, 524, 525, 527, 528, 529, 530, 531, 532, 533, 534, 536, 539, 540, 541, 543, 548, 549, 550, 551, 554, 555, 558, 560, 561, 562, 563, 564, 565, 570, 571, 572, 573, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 722, 727, FL 219, 220, 221, 223, 224, 246, 392, 393, 394, 406, 407, 539, 541, WGS 305, 327, 410</p>	<p>3</p> <p>3</p> <p>9</p> <p>6</p>	
<p>Free Electives: (Requirement 000026068) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101</p>	<p>27</p>	
<p>Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i></p>	<p>66</p>	
<p>COLLEGE REQUIREMENTS:</p>		
<p>Orientation Course(s):</p>		

<p>Other: History I (Requirement 000019312): A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the college-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p>	<p>3</p>	<p>Humanities (3)</p>
<p>History II (Requirement 000019313): A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the college-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p>	<p>3</p>	
<p>Foreign Language (Requirement 000019319): FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, 212, GRK 201, LAT 201, or PER 201</p>	<p>3</p>	
<p>Philosophy (Requirement 000019316): Any 3-credit hour Philosophy course on the university- approved GEP course list.</p>	<p>3</p>	<p>Humanities (3 cr)</p>
<p>Arts and Letters (Requirement 000019317): Choose one three credit hour course from the college approved Arts and Letters list. ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, ARS 251, 252, 259, 306, 351, 353, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 375, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 471, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p>	<p>3</p>	
<p>Social Science (Requirement 000022593): Additional Social Science (Requirement 000019365): Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list Anthropology - ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 424, 427, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, FLJ 351, HI 587, SOC 261, WGS 444 Agricultural Economics -ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436 Economics – ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 337, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 452, 474, 480, 490, 491, 495, 498 Political Science – AFS 409, LPS 315, PS 201, 202, 203, 204, 205, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445, 462, 463, 471, 490, 492, 498, SOC 413, 432, WGS 306, 418 Psychology – AFS 345, EDP 304, 476, 582, ISE 540, PHI 425, 525, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425,</p>	<p>9 3</p>	<p>Social Sciences (6 cr)</p>

430, 431, 436, 470, 475, 491, 495, 498, 499, , **WGS** 406
Sociology - **AFS** 305, **ANT** 261, **GEO** 220, **PS** 432, **REL** 309,
SOC 202, 203, 203A, 204, 205, 206, 220, 241, 241A, 261, 295,
300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395,
400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427,
428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495,
498, **WGS** 204, 304, 407
Multidisciplinary – ENG 210, GEO 220, SOC 220, STS 402

Total credit hours under College Requirements:

27

<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 <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></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? <i>(Choose applicable statement from 1-6 listed above)</i>
Mathematical Sciences (6 credits) <i>(At least 1 course with MA or ST prefix) 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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
Natural Sciences (7 credits) <i>(At least 1 lab course or course with a lab) 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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) <i>(Courses from two different disciplines) 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	<i>(Choose statement 1, 2 or 3)</i> Major/College course requirement satisfies <u>6</u> credit hrs of this requirement.
Social Sciences (6 credits) <i>(Courses from two different disciplines) 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	<i>(Choose statement 1, 2 or 3)</i> Major/College course requirement satisfies <u>6</u> credit hrs of this requirement.
Additional Breadth (3 credits) <i>(Choose approach that is different from the approach of the Major) 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	<i>(Choose statement 5 or 6)</i> Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
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 course(s) from the University Approved GEP course list for this category.
Health and Exercise Studies (2 credits) <i>(Including one Fitness and Wellness course)</i>	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.	27	
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_201 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	As applicable, indicate here the overall GPA requirement for degree completion including course completion.
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North Carolina State University

This request has been reviewed and approved by the appropriate campus committees and authorities.

Endorsed By:

Laura Swearing 11/8/18
Head, Department/Program Date

Recommended By:

David R. A. 11/8/18
Chair, College Curriculum Committee Date

Endorsed By:

Dean Dando 11/12/18
College Dean Date

Recommended By:

Vice Provost, DELTA (if DE degree/certificate) Date

Recommended By:

Chair, University Courses & Curricula Committee Date

Approved By:

Dean, (DASA or the Graduate School) Date

Recommended By:

Dean's Council Date

Approved By:

Executive Vice Chancellor and Provost Date

Approved By:

Chancellor Date

April 17, 2018

To: University Courses and Curriculum Committee

From: Department of Foreign Languages & Literatures

Re: Revised Major Concentration – French Studies (16 FLLBA FLL FRNCH)

Summary of Revision:

1. Change of title from "French Language & Literature" to "French Studies."

Justification:

1. The change of title is in line with current trends in the field to remove literature as a principal focus of the French major. The major has been adjusted to 120 credit hours.

April 17, 2018

To: University Courses and Curriculum Committee

From: Department of Foreign Languages & Literatures

Re: Revised Major Concentration – French Studies (16 FLLBA FLLFRNCH)

Summary of Revision:

1. Remove the current major requirement of FLF 301, which also currently satisfies the CHASS Literature I requirement, and defer to the CHASS Literature I requirement.

Justification:

2. Allowing students take a non-French-literature course will give them wider exposure to literature and help them understand their French literature course required by the Literature II requirement in broader historical and cultural contexts.

The effect of this change is to reduce the courses required in the major to 30 credit hours by using the regular CHASS Literature I requirement to replace one of the literature requirements currently required in the major.

Foreign Language and Literatures (BA): French Language & Literature (16FLLBA-16FLLFRNCH)

Current

Freshman Year

Fall Semester	Credit	Spring Semester	Credit
ENG 101 Academic Writing & Research ^F	4	FLF 202 Intermediate French II ^{4,10}	3
FL 201 Intermediate French I ^{4,10}	3	History II ¹	3
History I ¹	3	GEP Mathematical Sciences ^A	3
GEP Mathematical Sciences ^A	3	Social Science ³	3
Health and Exercise Studies ^C	1	Philosophy ⁵	3
		Health and Exercise Studies ^C	1
	14		16

Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
FLF 310 French Syntax and Composition ¹⁰	3	FLF 308 Advanced Conversation and Reading ¹⁰	3
FLF 309 French Phonetics and Pronunciation ¹⁰	3	FLF 315 French Civilization and Culture ¹⁰	3
GEP Natural Science with Lab ⁸	4	GEP Natural Science ⁸	3
Social Science ³	3	Arts & Letters ⁶	3
Free Elective ⁷	3	Social Science ³	3
	16		15

Junior Year

Fall Semester	Credit	Spring Semester	Credit
FLF 302 Literature and Culture ^{2,10}	3	FLF 301 Literature and Culture ^{2,10}	3
GEP Additional Breadth: Math/Natural Sci ^D	3	FLF Departmental Elective	3
Social Science ³	3	Free Electives ⁷	9
Free Electives ⁷	6		
	15		15

Senior Year

Fall Semester	Credit	Spring Semester	Credit
FLF 492 Senior Seminar ¹⁰	3	FLF Departmental Elective	3
GEP Interdisciplinary Perspectives ^E	3	GEP Interdisciplinary Perspectives ^E	2
Free Electives ⁷	9	Free Electives ⁷	9
	15		14

Minimum Credit Hours Required for Graduation ^{8,9, G, H, I}: 120

Major/Program Footnotes: Please consult the CHASS Key Points, the “Handbook for Foreign Language Majors” and the Degree Audits for detailed information.

1. **History I and II:** (6 credit hours selected from two groups: History I and History II) *Choose from the CHASS approved History I and History II course list.*
2. **Literature I and II:** (6 credit hours are met with French major Literature courses)
3. **Social Sciences:** *Choose four 3-credit hour courses (12 credit hours total) from the CHASS approved lists in at least three of the following areas: ANT, ARE, EC, PS, PSY, SOC. Also ENG 210, GEO/SOC 220, or STS 402. Six (6) credit hours must be taken from the GEP Social Sciences list.*
4. **Foreign Language:** *Completion of FL 201.* (All students must take the NCSU Proficiency Test upon entering CHASS. Students who take FL 101 will not receive graduation credit for the course unless it is in a language other than the one used to fulfill the 201 language requirement.)
5. **Philosophy:** *Choose any 3-credit PHI course on the GEP-Humanities list.*
6. **Arts and Letters:** *Choose from the CHASS approved Arts & Letters course list.*
7. **Free Electives:** *Any course except MA 101, FL_101, FLS 105, LAT 101, GRK 101, and PER 101. 101-level foreign-language courses can be used as free electives if they are in languages other than the language the student uses to fulfill major language requirement. Only 12 credit hours of free electives may be taken for credit only (S/U).*
8. **Oral Proficiency in Spanish:** Spanish majors must demonstrate oral proficiency in Spanish at the Intermediate High level or higher on the ACTFL scale (<http://www.actfl.org>) before applying for graduation.
9. **Study Abroad/Internship Abroad:** It is strongly recommended that students participate in at least one study abroad experience to a French-speaking country. Please note that no more than 15 hours of transfer credit (from a non-NCSU program) may be applied towards the major. NCSU sponsored programs count as a regular coursework.
10. **Content Courses:** French Education majors must complete 24 hours of French Language content courses with a C or higher.

***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 <https://oucc.dasa.ncsu.edu/general-education-program/>.

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

Choose from the University approved GEP Mathematical Sciences course list.

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.

C. Health and Exercise Studies (2 credit hours-at least one 100-level Fitness and Wellness Course)

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

D. Additional Breadth (3 credit hours to be selected from the following checked University approved GEP course lists): Mathematical Sciences/Natural Sciences/Engineering.

E. Interdisciplinary Perspectives (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

F. 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

G. 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.

H. 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.

I. 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: **2191**

Degree/Plan Title: **BA/Foreign Languages & Literatures** Concentration/Subplan Title Change: **French Studies**

Plan SIS Code: **16FLBA** Subplan SIS Code: **16LLFRNCH**

New Degree Audit required? (Y or N) **Y**

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	FLF 202 Intermediate French II ^J	3
GEP Interdisciplinary Perspectives ^G	2	History II ²	3
FLF 201 Intermediate French I ^{K, 8,}	3	GEP Mathematical Science ^A	3
History I ^{C, 1}	3	Social Science Elective ^{D, 7}	3
GEP Mathematical Science ^A	3	Philosophy ^{C, 5}	3
	Total:15		Total:15
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FLF 310 Advanced Written Communication	3	FLF 308 Advanced Conversation: Contemporary	3
FLF 309 French Phonetics & Pronunciation	3	French Cultures	
GEP Natural Science w/ Lab ^B	4	FLF 315 French Culture & Civilization ^J	3
Social Science Elective ^{D, 7}	3	GEP Natural Science ^B	3
Free Elective ⁹	3	Arts & Letters ⁶	3
		Social Science Elective ⁷	3
		GEP HESF 100-level Fitness & Wellness ^E	1
	Total:16		Total:16
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FLF 302 Survey of French Literature from Romanticism to the Contemporary Period ^{1,4}	3	FLF 301 [add] Literature I ³	3
GEP Additional Breadth (MS/NS/E) ^F	3	FLF Departmental Elective ¹⁰	3
Social Science Elective ⁷	3	Free Electives ⁹	9
Free Electives ⁹	6		
	Total:15		Total:15
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FLF 492 Seminar in French Studies	3	FLF Departmental Elective ¹⁰	3
GEP Interdisciplinary Perspectives ^G	3	GEP Health & Exercise Studies ^E	1
Free Electives ⁹	9	Free Electives ⁹	9
	Total:15		Total:13
Minimum Credit Hours Required for Graduation ^{*,11, 12, 13} : 120			

Major/Program Footnotes: *Please consult the College of Humanities and Social Science Key Points, the "Handbook for Foreign Language Majors" and the Degree Audit (Curriculum Requirements) for detailed information*

- History I** One 3-credit course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western)
- History II** One 3-credit course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture)
- Literature I** One 3-credit hour course required from the College-approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)

4. **Literature II** One 3-credit hour course required from the College-approved Literature II list. (any course that meets the Literature I requirement; or a course in American or Twentieth Century Literature; or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language)
5. **Philosophy** Any PHI course on the approved GEP-Humanities list
6. **Arts and Letters** One 3-credit hour course is required from the College-approved Arts & Letters course list
7. **Social Sciences** Twelve (12) credit hours, selected from College-approved list, required from three different disciplines, six (6) must be on GEP-Social Sciences list.
8. **Foreign Language** Completion of FLx 201 or comparable proficiency as demonstrated by examination
9. **Free Electives** Maximum 12 credit hours of free electives may be taken for credit only (S/U)
10. **FLF Departmental Elective** 6 credits. Select two, 3-credit hour courses from program approved list.
11. **Study Abroad/Internship Abroad** It is strongly recommended that students participate in at least one study abroad experience to a French-speaking country. NCSU sponsored study abroad programs count as regular coursework.
12. **Major Residency Requirements** No more than 15 hours of transfer credit may be applied towards departmental (major) requirements.
13. **Grade Point Average (GPA) Requirements**

* **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:
 - 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:
 - 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
 - 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: Minimum requirements are satisfied by College Social Sciences requirement.
 - 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)
_____ 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: FLF 202, FLF 302 or FLF 315
 - K. **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> BA/Foreign Languages & Literature	<u>Plan SIS Code:</u> 16FLLBA
Concentration/ Subplan Title Change: French Studies	Subplan SIS Code: 16FLLFRNCH
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2191
<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 that 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:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
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
<i>C- or better required</i>		
FLF 201 Intermediate French I	3	
FLF 202 Intermediate French II	3	Global Knowledge (co-req)
FLF 301 French Lit from Middle Ages through Enlightenment	3	
FLF 302 French Lit from Romanticism to Contemp Period	3	Global Knowledge (co-req)
FLF 308 Advanced Conversation: Contemp French Cultures	3	
FLF 309 French Phonetics & Pronunciation	3	
FLF 310 Advanced Written Communication	3	
FLF 315 French Civilization & Culture	3	Global Knowledge (co-req)
FLF 492 Seminar in French Studies	3	
Departmental Electives (Requirement: 000032763)	6	
FLF 306, 307, 318, 321, 411, 414, 425, 525		
Concentration Courses/Groups/Electives:		
Free Electives: (Requirement: 000020679) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101	36	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	69 66	

COLLEGE REQUIREMENTS:		
Orientation Course(s):		
<p>Other:</p> <p>History I (Requirement: 000019312) - A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the College-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p> <p>History II (Requirement: 000019313) - A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the College-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p> <p>[add] Literature I (Requirement: 000019314) - A survey course covering literature outside the U.S. and prior to the 20th century required. Choose one 3-credit hour course from the College-approved Literature 1 list. CLA 210, 320, ENG 219, 220, 221, 222, 251, 255, 261 or 262 (but not both), 361, FL 219, 220, 221, 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 HON 293 Honors Special Topics-Literature</p> <p>Philosophy (Requirement: 00019316) - Any PHI course on the approved GEP-Humanities list</p> <p>Arts and Letters (Requirement: 000019317) – Choose one three credit hour course from the College approved Arts and Letters list. ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, 141, ARS 251, 252, 259, 306, 351, 353, 354, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 321, 364, 374, 375, 411, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 181, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 423, 471, 472, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p> <p>Social Science (Requirements: 000020676 & 000019365) <i>(Choose three different disciplines)</i> Anthropology: ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 422, 424, 427, 428, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, 501, 529, 585, 587, HI 587, SOC 261, WGS 444 Agricultural Economics: ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 420, 425, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436 Economics: ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 474, 480, 490, 491, 495, 498 Political Science: AFS 409, LPS 315, PS 101, 102, 103, 201, 202, 203, 204, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445,</p>	<p>3</p> <p>3</p> <p>[add] 3</p> <p>3</p> <p>3</p> <p>12</p>	<p>Humanities (3)</p> <p>Humanities (3)</p> <p>Social Science (6)</p>

462, 463, 471, 490, 492, 498, 502, 506, 507, 530, 531, 532, 534, 536, 539, 540, 541, 542, 571, 585, SOC 413, 432, WGS 306, 418 Psychology: AFS 345, EDP 304, 476, 582, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425, 430, 431, 436, 470, 475, 491, 495, 498, 499, 502, 504, 508, 510, 511, 541, 553, 558, 758, WGS 406 Sociology: AFS 305, ANT 261, 428, GEO 220, PS 432, REL 309, SOC 202, 203, 203A, 204, 205, 206, 207, 220, 241, 241A, 261, 295, 300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395, 400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427, 428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495, 498, 508, 509, 514, 533, 591, WGS 204, 304, 407 Multidisciplinary: ENG 210, GEO 220, SOC 220, STS 402		
Total credit hours under College Requirements:	24	27

<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>		<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 X 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.
<i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		
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) <i>(At least 1 course with MA or ST prefix) 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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category.
Natural Sciences (7 credits) <i>(At least 1 lab course or course with a lab) 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	<i>(Choose statement 1, 2 or 3)</i> 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) <i>(Courses from two different disciplines) 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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major/College course requirements.
Social Sciences (6 credits) <i>(Courses from two different disciplines) 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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major/College course requirements.
Additional Breadth (3 credits) <i>(Choose approach that is different from the approach of the Major) 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	<i>(Choose statement 5 or 6)</i> Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category.
Health and Exercise Studies (2 credits) <i>(Including one Fitness and Wellness course)</i>	2	Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	27	

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>
Global Knowledge co-requisite (GK)	n/a	<i>(Choose statement 1 or 4)</i> Co-requisite is satisfied by a Major/College course requirement
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)		Satisfied by College/Program Requirements
Technology Fluency		Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

North Carolina State University

This request to establish or discontinue a New Undergraduate Degree or University Certificate Program or Change the Title for an Existing Degree/Certificate Program has been reviewed and approved by the appropriate campus committees and authorities.

French Studies

Title of Degree/Certificate

Endorsed By:

26 March 2018

Head, Department/Program

Date

Recommended By:

Text

Chair, College Curriculum Committee

Date

Endorsed By:

11/12/18

College Dean

Date

Recommended By:

Vice Provost, DELTA (if DE degree/certificate)

Date

Recommended By:

Chair, University Courses & Curricula Committee

Date

Approved By:

Dean, Division of Academic and Student Affairs (DASA)

Date

Recommended By:

Dean's Council

Date

Approved By:

Provost

Date

Approved By:

Chancellor

Date

Psychology Minor (16PCM) - revision

From: Daniel Grün

Date: October 16, 2018

Dear Members of the Undergraduate Committee,

To facilitate students' progress to completion, the Psychology Department would like to make a small revision to the established Psychology Minor (16PCM) by modifying the requirements for a research method class.

The Psychology Minor requires a research method class (PSY 230 Introduction to Research Methods). However, we have several Psychology minors with a major in a different social science and the question came up repeatedly whether research method courses taken for the major in the other social sciences would count for the Psychology research method class.

The proposed revision provides clarity by granting Psychology Minors the option of using a research method course taken in another social science to fulfill the research method requirement. In particular, students who took either PS 371, SOC 300, or COM 240 with a 'C-' or better fulfilled the requirement.

Students would still be required to complete the 18 hours of course work in Psychology. Thus, students who took PS 371, SOC 300, or COM 240 would take another 300- or 400-level Psychology course instead of PSY 230.

Below is a revised OUCC page for the Psychology minor with the modification marked in red.

Sincerely, Daniel Grün

Psychology (16PCM)

Description

The Psychology Department offers a minor in Psychology to majors in any field except Psychology. No courses for the minor may be taken for S/U credit.

Requirements

- No more than 9 hours may be met with transfer credit.
- Completion of 18 credit hours of coursework with a grade of 'C-' or better.
- 6 of the 18 hours must be in the foundational courses of psychology and 9 hours in the core courses of psychology.
- A maximum of ONE (1) course may be used (double-counted) towards both departmental major requirements and minor requirements.

Required Foundational Courses (6 credit hours)

- PSY 200 Introduction to Psychology (3 cr)
- PSY 230 Introduction to Psychological Research* (3 cr)

*Students who have taken a research methods class in Political science (PS 371), Sociology (SOC 300), or Communication (COM 240) – with a 'C-' or better - do not have to take PSY 230 for their psychology minor. Instead, they will take an additional 300-level or 400-level Psychology course (with the exception of PSY 499).

Required Core Courses – (3 of the following courses 9 credit hours)

- PSY 420 Cognitive Processes (3 cr)
- PSY 430 Biological Psychology (3 cr)
- PSY 311 Social Psychology (3 cr)
- PSY 376 Developmental Psychology (3 cr)

Required Elective Course (3 credit hours)

- PSY *** Any PSY course except PSY 499 (3 cr)

Admissions

Students may declare their intention to complete the Psychology minor by consulting with the contact person listed below.

Certification

The contact person 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.

Effective: 8.2016

Contact Person

Dr. Dana Kotter-Gruehn
639 Poe Hall,
919-513-4855
psych_advising@ncsu.edu

SIS Code: 16PCM

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

DEPARTMENT(S):
PSYCHOLOGY

TYPE OF PROPOSAL:
New Minor: _____
Revision to Minor: X
Discontinuation: _____

TITLE OF THE MINOR:
PSYCHOLOGY (16PCM)

PROPOSED EFFECTIVE DATE: 07/2019 APPROVED EFFECTIVE DATE: _____

ATTACHMENTS INCLUDED:

1. Statement of Justification
2. Statement of Academic Minor Program Objectives
3. List of Courses constituting the Proposed Minor
4. Catalog Description of Proposed Minor
5. Administration of the Minor (Contact information for Administrator of the Minor)
6. Requirements for Admission and Completion of the Minor
7. Statement on Other Departments Likely to be Affected and Summary of Consultations with those Departments
8. *Optional*: Projected Resources and Enrollment

REQUIRED SIGNATURES:

Christy B. May 10/16/18
Head, Department/Program Date

M. D. P. 11/7/18
Chair, College Curriculum Committee Date

Deanna Davis 11/5/18
College Dean Date

Chair, University Courses & Curricula Committee Date

Dean, Division of Academic and Student Affairs (DASA) Date

OTHER REQUIRED SIGNATURES AS NEEDED:

Chair, College Curriculum Committee Date

College Dean Date

NC STATE UNIVERSITY

TO: Office of the Dean for Academic and Student Affairs
FROM: Spencer Muse, Director of 17STBS
RE: Updates to the ~~17BI~~BA curriculum
DATE: 20 September 2018 *17STBS ZAK*

Proposed effective date: July 2019

Proposed changes and justification

To comply with the new UNC system requirement for undergraduate degree programs to require no more than 120 credits, this minor action requests a decrease in the Free Elective category for 17STBS (Statistics BS) by one credit from 6 to 5.

The proposed changes are highlighted in the attached Formats A and B.

Sincerely,

Spencer Muse 9/25/2018

Spencer Muse

SIGNATURES (AS REQUIRED):

[Signature] 9-26-2018
Head, Dept of Statistics Date

[Signature] 9/26/2018
Chair, College Curriculum Committee Date

[Signature] 9/28/18
College of Sciences Dean Date

Chair, University Courses & Curricula Committee Date

PROPOSED EFFECTIVE DATE: Summer 2019

Dean, Academic and Student Affairs Date

APPROVED EFFECTIVE DATE: _____

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: Fall 2019

Degree/Plan Title: Statistics (BS)

Concentration/Subplan Title:

Plan SIS Code: 17STBS

Subplan SIS Code:

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
COS 100 Perspectives on Learning (or E 115)	2	COM 110 (or 112 or 211) Public Speaking	3
ENG 101 Academic Writing & Research ^H	4	MA 241 Analytic Geo & Calculus II ⁴	4 (CP)
MA 141 Calculus I ⁴	4 (CP)	Science Elective ¹	4
ST 114 Stat Programming (or CSC 112 or 116) ⁴	3 (CP)	ST 305 Statistical Methods ⁴	4 (CP)
GEP Requirement ^{C,I,J}	3	ST 307 Intro Stat Programming- SAS ⁴	1 (CP)
	<i>Total:16</i>		<i>Total:16</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
MA 242 Calculus III ⁴	4 (CP)	ST 308 Intro Stat Programming- R ⁴	1
MA 225 Foundations of Advanced Math ⁴	3 (CP)	GEP Requirement ^{F,I,J}	3
ST 445 Intro Stat Comp & Data Mgmt ⁴	3	GEP Requirement ^{D,I,J}	3
Science Elective ¹	4	MA 405 Intro to Linear Algebra & Matrices ⁴	3 (CP)
Health & Exercise Studies Requirement ^E	1	Advised Elective ^{2,4}	3
	<i>Total:15</i>	Health & Exercise Studies Requirement ^E	1
			<i>Total:14</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ST 421 Intro to Mathematical Stat I ⁴	3 (CP)	ST 422 Intro to Mathematical Stat II ⁴	3
ST 430 Intro to Regression Analysis ⁴	3	ST 431 Intro to Experimental Design ⁴	3
GEP Requirement ^{D,I,J}	3	GEP Requirement ^{D,I,J}	3
Advised Elective ^{2,4}	3	Science Elective ¹	3
Science Elective ¹	4	Advised Elective ^{2,4}	3
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 331 (or 332 or 333) Comm for Engr & Tech	3	ST 432 Intro to Survey Sampling ⁴	3
GEP Requirement ^{G,I,J}	3	Statistics Elective ^{3,4}	3
Advised Elective ^{2,4}	3	Advised Elective ^{2,4}	3
Statistics Elective ^{3,4}	3	Free Elective ^{5,K}	2
Free Elective ^{5,K}	3	GEP Requirement ^{G,I,J}	2
	<i>Total:15</i>		<i>Total:13</i>
Minimum Credit Hours Required for Graduation : 120			

Major/Program Footnotes:

- Choose from the GEP list of Natural Sciences; must include at least 3 laboratory classes
- The Advised Electives may include any course at the 300 level or higher (with the exception of 300-level ST courses or BUS 350) and are subject to the approval of the student's advisor. Note that many of these courses will have prerequisites or other restrictions. Students are encouraged to use Advised Elective credits to pursue a minor or second major.
- Statistics Electives must be ST-labeled courses at the 400 or 500 level.

4. At most one D level grade is permitted in Major Electives, Statistics Electives, or required MA, ST, or CSC courses. C- or better required in ST 305 and ST 421.
5. A minimum of 120 credit hours are required for graduation.

* **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)
Major requirements fulfill all of this requirement.
- B. **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
Major requirements fulfill all of this requirement.
- C. **Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list
- D. **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list.
- E. **Health & Exercise Studies.** (2 credit hours – must include at least one 100-level Fitness and Wellness HESF 100-level course)
Choose from the University approved GEP Health & Exercise Studies course list.
- F. **Additional Breadth** – (3 credit hours to be selected from the following University approved GEP course lists)
Humanities/Social Sciences/Visual and Performing Arts
- G. **Interdisciplinary Perspectives** (5 credit hours)
Choose from the University approved GEP Interdisciplinary Perspectives course list.
- 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.
- 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.
- K. **Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

CURRICULUM REQUIREMENTS**Format B**

Degree/Plan Title: Statistics (BS)	Plan SIS Code: 17STBS
Concentration/Subplan Title:	Subplan SIS Code:
Indicate requirements status: Current:	Proposed: X
Proposed Effective Semester: Fall 2019	
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.	

MAJOR FIELD OF STUDY REQUIREMENTS:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
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
Communication & Advanced Writing		
Communication COM 110 or 112 or 211	3	
Mathematics		
Calculus I MA 141 (CP)	4	Mathematical Sciences 3
Calculus II MA 241 (CP)	4	Mathematical Sciences 3
Calculus III MA 242 (CP)	4	
Found Advanced Math MA 225 (CP)	3	
Linear Algebra and Matrices MA 405 (CP)	3	
Computer Science & Statistical Computing		
Statistical Programming ST 114 (CP)	3	
Intro to SAS Programming ST 307 (CP)	1	
Intro to R Programming ST 308	1	
Statistical Computing- SAS ST 445	3	
Statistics		
Statistical Methods ST 305 (CP) C-wall	4	
Intro Math Stat I ST 421 (CP) C-wall	3	
Intro Math Stat II ST 422	3	
Intro Regress Analysis ST 430	3	
Intro Experimental Design ST 431	3	
Intro Survey Sampling ST 432	3	
Statistics Elective ST 400>	6	
Concentration Courses/Groups/Electives:		
Science Electives		
Natural Science Elective: Choose course(s) from the University Approved GEP course list for this category	15	Natural Sciences 7
Advised Electives		
Advised Elective *** 300>	15	

Free Electives: 6→5	5	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	90 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): COS 100 or E 115	2	
Other: Advanced Writing ENG 331 or 332 or 333	3	
Total credit hours under College Requirements:	5 Hours	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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>Specific courses should not be listed in any of the fields below other than ENG 101.</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 X 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:		Credit hours	How will the GEP requirement be met?
<i>Minimum 39-40 hrs</i>			(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	2	(Choose statement 1, 2 or 3)
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	2	(Choose statement 1, 2 or 3)
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	5	(Choose statement 1, 2 or 3)
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>	6	5	(Choose statement 1, 2 or 3)
Additional Breadth (3 credits) (Choose approach that is <i>different</i> 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	5	(Choose statement 5 or 6)
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	1	(Choose statement 1, 2 or 3)
Health and Exercise Studies (2 credits) (Including one <i>Fitness and Wellness</i> course)	2		Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	26 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	1	(Choose statement 1 or 4)
Global Knowledge co-requisite (GK)	n/a	1	(Choose statement 1 or 4)
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.



College of Sciences

Department of Biological Sciences

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Raleigh, NC 27695-7614

Tel: 919.515.5705, Fax: 919.515.3355

Date: August 3, 2018

To: Office of the Dean for Undergraduate Academic Programs

From: Jonathan Olson, Director of Undergraduate Microbiology Programs

Re: Updates to the Microbiology Curriculum and Concentrations

Proposed Changes and Justification

This curriculum action is to comply with the UNC governors amended policy 400.1.5 (January 26, 2018) that constituent institutions will require no more than 120 semester credit hours for a four-year baccalaureate degree program. Currently the microbiology curriculum and 3 concentrations all require 123 credit hours, mandating a 3-credit hour reduction.

The Microbiology Undergraduate Curriculum Committee met on May 2, 2018 and after several hours of careful consideration unanimously voted to remove the Calculus 2 requirement from the affected curricula. Among the discussed options, the committee felt that this was the best option for our majors, with the following rationale:

1. Neither MA 231 nor MA 241 (Calculus II) are pre-requisites for other required courses.
2. Calculus II is not required for the professional or graduate schools that our majors typically are preparing for.
3. The GEP Math requirement will still be fulfilled with the remaining requirements of Calculus I and Statistics
4. Our concentrations currently only have 3 hours of free electives, it was consensus that these need to remain to give MB majors some flexibility.

Below is a description of the changes for each degree

17MBOBS – Bachelor of Science in Microbiology (no concentration)

Format A

- The Calculus requirement (3 credits) was removed from Spring semester Freshman year, and replaced with a free elective (3credits).
- 3 credits of free electives were removed from Fall semester Junior year, reducing total credits for this semester to 14 (from 17)
- Footnote 4 (the courses that fulfill the calculus II requirement) was removed, and the subsequent footnotes were re-numbered accordingly.

- Footnote 7 (previous footnote 8) was changed to reflect that BIO 421 was removed from the Cell and Physiology elective because it is no longer offered, and the replacement course (BIO 240 and BIO 245) were added.
- Footnote 9 (formerly footnote 10) was changed to reflect that BSC 492 and BSC 493 have supplanted MB 492 and MB 493 for undergraduate research.
- The total hours required for graduation has been reduced from 123 to 120.

Format B

- BSC 493 (formerly MB 493) was added to list of Microbiology electives
- Calculus II requirement was removed from the mathematics major field of study
- BIO 421 (no longer offered) was replaced with BIO 240 or BIO245 in the Cell/physiology requirement
- Total Credit hours for the Major field of study was reduced from 98 to 95
- Total Credit hours required to Complete degree was reduced from 123 to 120 hours

17MBIOBS-17MBIOMBR – Bachelor of Science in Microbiology, Microbial Research Concentration

Format A

- The Calculus requirement (3 credits) was removed from Spring semester Freshman year, and replaced with 3 credits of GEP Social Science elective.
- 3 credits of GEP Social Science Electives were removed from Fall semester Junior year, reducing total credits for this semester to 14 (from 17)
- Footnote 4 (the courses that fulfills the calculus II requirement) was removed, and the subsequent footnotes were re-numbered accordingly.
- Footnote 7 (previous footnote 8) was changed to reflect that BIO 421 was removed from the Cell and Physiology elective because it is no longer offered, and the replacement course (BIO 240 and BIO 245) were added.
- Footnote 9 (formerly footnote 10) was changed to reflect that BSC 492 and BSC 493 have supplanted MB 492 and MB 493 for undergraduate research.
- The total hours required for graduation has been reduced from 123 to 120.

Format B

- Calculus II requirement was removed from the mathematics major field of study
- BIO 421 was replaced with BIO 240 or BIO245 in the Cell/physiology requirement
- BSC 493 (formerly MB 493) and BSC 492 (formerly MB 492) were added to the Concentration group electives: Microbiology research
- Total Credit hours for the Major field of study was reduced from 98 to 95
- Total Credit hours required to Complete degree was reduced from 123 to 120 hours

17MBIOBS-11MBIOMBT - Bachelor of Science in Microbiology, Microbial Biotechnology Concentration

Format A

- The Calculus requirement (3 credits) was removed from Spring semester Freshman year, and replaced with 3 credits of GEP Social Science elective.
- 3 credits of GEP Social Science Electives were removed from Fall semester Junior year, reducing total credits for this semester to 14 (from 17)

- Footnote 4 (the courses that fulfill the calculus II requirement) was removed, and the subsequent footnotes were re-numbered accordingly.
- Footnote 7 (previous footnote 8) was changed to reflect that BIO 421 was removed from the Cell and Physiology elective because it is no longer offered, and the replacement course (BIO 240 and BIO 245) were added.
- The total hours required for graduation has been reduced from 123 to 120.

Format B

- Calculus II requirement was removed from the mathematics major field of study
- BIO 421 (no longer offered) was replaced with BIO 240 or BIO245 in the Cell/physiology requirement
- Total Credit hours for the Major field of study was reduced from 98 to 95
- Total Credit hours required to Complete degree was reduced from 123 to 120 hours

17MBIOBS-17MBIOHS - Bachelor of Science in Microbiology, Microbial Health Science Concentration

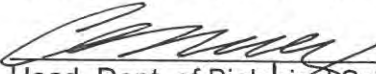
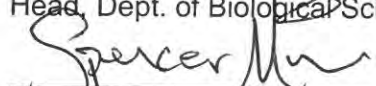
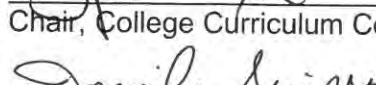
Format A

- The Calculus requirement (3 credits) was removed from Spring semester Freshman year, and replaced with 3 credits of GEP Social Science elective (3credits).
- 3 credits of GEP Social Science Electives were removed from Fall semester Junior year, reducing total credits for this semester to 14 (from 17)
- Footnote 4 (the courses that fulfill the calculus II requirement) was removed, and the subsequent footnotes were re-numbered accordingly.
- Footnote 7 (previous footnote 8) was changed to reflect that BIO 421 was removed from the Cell and Physiology elective because it is no longer offered, and the replacement course (BIO 240 and BIO 245) were added.
- The total hours required for graduation has been reduced from 123 to 120.

Format B

- Calculus II requirement was removed from the mathematics major field of study
- BIO 421 (no longer offered) was replaced with BIO 240 or BIO245 in the Cell/physiology requirement
- Total Credit hours for the Major field of study was reduced from 98 to 95
- Total Credit hours required to Complete degree was reduced from 123 to 120 hours

SIGNATURES (AS REQUIRED):

	9/21/18
Head, Dept. of Biological Sciences	Date
	9/25/18
Chair, College Curriculum Committee	Date
	9/28/18
College of Sciences Dean	Date

PROPOSED DATE: 1 Jan 2019

Chair, University Courses & Curriculum Committee Date

APPROVED EFFECTIVE DATE: _____

Dean, Academic and Student Affairs Date

GEP FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current: Proposed: X

DEGREE TITLE: Bachelor of Science in Microbiology

CONCENTRATION TITLE: N/A

CURRENT DEGREE KEY: 17MBOBS

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BIO 181 Intro Biology: Ecol, Evol, Biodiversity ¹	4	BIO 183 Intro Biology: Cellular & Molecular ¹	4
CH 101 Chem Molecular Sci ¹	3	CH 221 Organic Chem I ¹	3
CH 102 Gen Chem Lab ¹	1	CH 222 Organic Chem I lab ¹	1
LSC 101 Critical Creative Thinking Life Sci ¹	2	MA 231 Calculus II ^{1,4}	3
MA 131 Calculus I ^{1,2}	3	ENG 101 Acad Writing Rsrch	4
MB 103 Intro Topics Micro ³	1	Free elective	3
Fitness and Wellness Course *	1		
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 Organic Chem II ¹	3	CH 201 Chem Quant Sci ¹	3
CH 224 Organic Chem II lab ¹	1	CH 202 Chem Quant Lab ¹	1
PY 211 Gen Physics I ^{1,5 4}	4	PY 212 Gen Physics II ^{1,2 6}	4
ST 311 Intro Statistics ^{1,6 5}	3	GEP Humanities Elective *	3
GEP Social Science Elective *	3	MB 351 Gen Microbiol ¹	3
Physical Education/Healthy Living Elective *	1	MB 354 Inquiry Guided Micro Lab ¹	1
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 333 Comm Sci Res	3	Cell/Physiology Elective ^{1,8 7}	3
GN 311 Princ Genetics ¹	4	Biochemistry elective ^{1, 42 11}	4
MB 411 Medical Micro ¹	3	Laboratory Elective ^{1,9 8}	3
MB 412 Med Micro Lab ¹	1	GEP Additional Breadth Elective *	3
GEP Social Science Elective *	3	Microbiology elective ^{1,40 9}	3
Free Elective	3		
	<i>Total:14</i>		<i>Total:16</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
MB 414 Metabolic Reg ¹	3	MB 480 Topical Issues Micro ¹	1
Gene Expression Elective ^{1,44 10}	3	MB 451 Micro Diversity ¹	3
Microbiology Elective ^{1,40 9}	3	MB 452 Micro Diversity lab ¹	2
Free Elective	3	Microbiology Elective ^{1,40 9}	3
GEP Humanities Elective *	3	GEP IP Elective *	3
		Free Elective	3
	<i>Total:15</i>		<i>Total:15</i>
Minimum Credit Hours Required for Graduation*: 123 120			

Major/Program Footnotes:¹ A minimum grade of C- is required for these courses² or MA 141 (MA 131 recommended)³ or LSC 103⁴ or MA 241 for those students who have credit for MA 141 (MA 231 recommended)⁵ or PY 201 or PY 205 (PY 211 recommended)⁶ or ST 371 for those with credit for MA 141 and MA 241 (ST 311 recommended)⁷ or PY 202 or PY 208 (PY 212 recommended)⁸ BIO 414, PB 414, BIO 421, BIO 240, BIO 245, or PB 421⁹ At least 3 credits of GN 312, BCH 452, BEC 330, MB 360 or any 400-level BEC or BIT courses¹⁰ Select at least 3 credit hours from MB/FS 405/406, MB 360 (cannot be double-counted with the Lab elective), BIT 410 (cannot be double-counted with the Lab elective), MB/BEC 420 (cannot be double-counted with the Lab elective), MB 441, MB 455, MB 461, MB 492, MB 493, BSC 493, BSC 492, MB/SC 532¹¹ Either BCH 453 or GN 413¹² Either BCH 351 or BCH 451

***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)

In Microbiology, this GEP requirement is met through the Major course requirements.

Natural Sciences (7 credit hours - include one laboratory course or course with a lab)

In Microbiology, this GEP requirement is met through the Major course requirements.

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

Choose from the University approved GEP Humanities course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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

Choose from the University approved GEP Social Sciences course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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) *Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.*

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. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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.

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.

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

CURRICULUM REQUIREMENTS PROPOSED

Degree Title: Bachelor of Science in Microbiology

Current Degree Key: 17MBIOBS

Effective Date of Revision:

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		List GEP category and hours satisfied by a Major requirement
All courses in the Major Field of Study have a C-wall requirement.		
Microbiology MB 351 and MB 354 and MB 411 and MB 412 and MB 414 and MB 451 and MB 480	17	
Microbiology restricted electives BBS 426 or BEC 426 or BEC/CHE 463 or BEC 480 or BEC 580 or BIT/MB 210 or BIT/MB 211 or BIT 410 or BIT 466 or FS/MB 405 or FS/MB 406 or FS 426 of FS/MB 505 or FS/MB 506 or MB 420 or MB 441 or MB 455 or MB 461 or MB 492 or BSC 493 or MB/SSC 532	9	Natural Sciences (7 hours)
Mathematics Calculus I : MA 131 or MA 141 Calculus II : MA 231 or MA 241 Statistics : ST 311 or ST 371	3 3 3	Mathematics (6 hours)
Chemistry CH 101, CH 102, CH 201, CH 202, CH 221, CH 222, CH 223, CH 224	16	
Physics Physics I : PY 211 or PY 201 or PY 205 Physics II : PY 212 or PY 202 or PY 208	4 4	
Biology : BIO 181 and BIO 183	8	
Advanced sciences GN 311 Biochemistry : BCH 351 or BCH 451 Gene Expression : BCH 453 or GN 413 Cell/physiology : Cell/physiology: BIO/PB 414 or BIO/PB 421 or BIO240 or BIO245	4 4 3 3	
Laboratory electives GN 312, BCH 452, MB 360, BEC 4**, BIT 4**	3 3	
Scientific Communication ENG 333	2	Satisfies Communication in the Major GEP co-requisite
Life Sciences First Year LSC 101	2	Satisfies 2 hours of Interdisciplinary Perspectives in the Major GEP requirements
Concentration Courses/Groups/Electives:		
none	0	
Free Electives:	9	

Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	9895 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): MB 103 or LSC 103	1	
Other: none	0	
Total credit hours under College Requirements:	1 hours	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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 X 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) <i>(At least 1 course with MA or ST prefix)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major courses requirements
Natural Sciences (7 credits) <i>(At least 1 lab course or course with a lab)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major courses requirements
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) <i>(Courses from two different disciplines)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category
Social Sciences (6 credits) <i>(Courses from two different disciplines)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category
Additional Breadth (3 credits) <i>(Choose approach that is different from the approach of the Major)</i> <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	<i>(Choose statement 5 or 6)</i> Choose course(s) from the University Approved GEP course list for this category
Interdisciplinary Perspectives (5-6 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>	3	<i>(Choose statement 1, 2 or 3)</i> Major/College course requirement satisfies 2 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category
Physical Education/Healthy Living (2 credits) <i>(Including one Fitness and Wellness course)</i>	2	<i>Choose course(s) from the University Approved GEP course list for this category.</i> 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:		<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.	123 120	Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

GEP FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current: Proposed: X

DEGREE TITLE: Bachelor of Science in Microbiology

CONCENTRATION TITLE: Microbial Biotechnology

CURRENT DEGREE KEY: 17MBIOBS-11MBIOMB

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BIO 181 Intro Biology: Ecol, Evol, Biodiversity ¹	4	BIO 183 Intro Biology: Cellular & Molecular ¹	4
CH 101 Chem Molecular Sci ¹	3	CH 221 Organic Chem I ¹	3
CH 102 Gen Chem Lab ¹	1	CH 222 Organic Chem I lab ¹	1
LSC 101 Critical Creative Thinking Life Sci ¹	2	MA 231 Calculus II ^{1,4}	3
MA 131 Calculus I ^{1,2}	3	ENG 101 Acad Writing Rsrch	4
MB 103 Intro Topics Micro ³	1	GEP Social Science Elective *	3
Fitness and Wellness Course *	1		
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 Organic Chem II ¹	3	CH 201 Chem Quant Sci ¹	3
CH 224 Organic Chem II lab ¹	1	CH 202 Chem Quant Lab ¹	1
PY 211 Gen Physics I ^{1,5,4}	4	PY 212 Gen Physics II ^{1,7,6}	4
ST 311 Intro Statistics ^{1,6,5}	3	GEP Humanities Elective *	3
GEP Social Science Elective *	3	MB 351 Gen Microbiol ¹	3
Physical Education/Healthy Living Elective *	1	MB 354 Inquiry Guided Micro Lab ¹	1
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 333 Comm Sci Res	3	Cell/Physiology Elective ^{1,8,7}	3
GN 311 Princ Genetics ¹	4	Biochemistry elective ^{1,42,11}	4
MB 411 Medical Micro ¹	3	Laboratory Elective ^{1,9,8}	3
MB 412 Med Micro Lab ¹	1	GEP Additional Breadth Elective *	3
GEP Social Science Elective *	3	MB 455 Microbial Biotechnology ¹	3
Microbial Biotechnology Elective ^{1,40,9}	3		
	<i>Total:17</i>		<i>Total:16</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
MB 414 Metabolic Reg ¹	3	MB 480 Topical Issues Micro ¹	1
Gene Expression Elective ^{1,44,10}	3	MB 451 Micro Diversity ¹	3
Microbial Biotechnology Elective ^{1,40,9}	3	MB 452 Micro Diversity lab ¹	2
Free Elective	3	GEP IP Elective *	3
GEP Humanities Elective *	3	Microbial Biotechnology Elective ^{1,40,9}	3
	<i>Total:15</i>	Microbial Biotechnology Elective ^{1,40,9}	3
			<i>Total:15</i>
Minimum Credit Hours Required for Graduation*: 423 120			

Major/Program Footnotes:¹ A minimum grade of C- is required for these courses² or MA 141 (MA 131 recommended)³ or LSC 103⁴ or MA 241 for those students who have credit for MA 141 (MA 231 recommended)^{5,4} or PY 201 or PY 205 (PY 211 recommended)^{6,5} or ST 311 for those with credit for MA 141 and MA 241 (ST 311 recommended)^{7,6} or PY 202 or PY 208 (PY 212 recommended)^{8,7} BIO 414, PB 414, **BIO 424, BIO 240, BIO 245**, or PB 421^{9,8} At least 3 credits of GN 312, BCH 452, BEC 330, MB 360 or any 400-level BEC or BIT courses^{40,9} At least 3 credits of MB/BIT 210, MB/BIT 211, MB 420, MB 520, BBS/FS 426, BEC 422, BEC 488, BAE/BBS 425, BEC/CHE 463, BEC 480, BIT 410, BIT 466. (BEC 4**, BIT 4**, ** 492, ** 493, ALS 498, ALS 499 with departmental approval) Note that MB/BIT 210/211 are only offered to Freshmen, and so these would require moving these elective earlier in the curriculum.^{44,10} Either BCH 453 or GN 413^{42,11} Either BCH 351 or BCH 451

***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)

In Microbiology, this GEP requirement is met through the Major course requirements.

Natural Sciences (7 credit hours - include one laboratory course or course with a lab)

In Microbiology, this GEP requirement is met through the Major course requirements.

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

Choose from the University approved GEP Humanities course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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

Choose from the University approved GEP Social Sciences course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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) *Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.*

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. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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.

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.

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

CURRICULUM REQUIREMENTS PROPOSED

Degree Title: Bachelor of Science in Microbiology, Microbial Biotechnology Concentration

Current Degree Key: 17MBIOBS-11MBIOMBT

Effective Date of Revision:

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		List GEP category and hours satisfied by a Major requirement
All courses in the Major Field of Study have a C-wall requirement.		
<u>Microbiology</u> MB 351, MB 354, MB 411, MB 412, MB 414, MB 451, MB 452 and MB 480	17	Natural Sciences (7 hours)
<u>Mathematics</u> Calculus I: MA 131 or MA 141 Calculus II: MA 231 or MA 241 Statistics: ST 311 or ST 371	3 3 3	Mathematics (6 hours)
<u>Chemistry</u> CH 101, CH 102, CH 201, CH 202, CH 221, CH 222, CH 223 and CH 224	16	
<u>Physics</u> Physics I: PY 211, PY 201, or PY 205 Physics II: PY 212, PY 202, or PY 208	4 4	
<u>Biology:</u> BIO 181 and BIO 183	8	
<u>Advanced sciences</u> GN 311 Biochemistry: BCH 351 or BCH 451 Gene Expression: BCH 453 or GN 421 Cell/physiology: BIO/PB 414 or BIO/PB 421 or BIO240 or BIO245	4 4 3 3	
<u>Laboratory electives</u> GN 312, BCH 452, MB 360, BEC 4**, BIT 4**	3	
<u>Scientific Communication</u> ENG 333	3	Satisfies Communication in the Major GEP co-requisite
<u>Life Sciences First Year</u> LSC 101	2	Satisfies 2 hours of Interdisciplinary Perspectives in the Major GEP requirements
<u>Concentration Courses/Groups/Electives:</u> MB 455	3	
<u>Micro Biotech Electives:</u> MB/BIT 210, MB/BIT 211, MB 420, MB 520, BBS/FS 426, BEC 422, BEC 488, BAE/BBS 425, BEC/CHE 463, BEC 480, BIT 410, BIT 466	12	
<u>Free Electives:</u>	3	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	98 95 hours	
COLLEGE REQUIREMENTS:		

Orientation Course(s): MB 103 or LSC 103	1	
Other: none		
Total credit hours under College Requirements:	1 hour	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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 may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i>		7 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>		8 Minimum requirements are satisfied by Major/College course requirements.
		9 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.
		10 Co-requisite is satisfied by a Major/College course requirement.
		11 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
		12 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) <i>(At least 1 course with MA or ST prefix) 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) Minimum requirements are satisfied by Major/College course requirements
Natural Sciences (7 credits) <i>(At least 1 lab course or course with a lab) 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) Minimum requirements are satisfied by Major/College course requirements
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) <i>(Courses from two different disciplines) 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) Choose course(s) from the University Approved GEP course list for this category
Social Sciences (6 credits) <i>(Courses from two different disciplines) 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) Choose course(s) from the University Approved GEP course list for this category
Additional Breadth (3 credits) <i>(Choose approach that is different from the approach of the Major) 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) Major/College course requirement satisfies 2 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
Interdisciplinary Perspectives (5-6 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>	3	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category
Physical Education/Healthy Living (2 credits) <i>(Including one Fitness and Wellness course)</i>	2	Choose course(s) from the University Approved GEP course list for this category. Choose course(s) from the University Approved GEP course list for this category
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	24 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	(Choose statement 1 or 4) Choose course(s) from the University Approved GEP course list for this category
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4)

		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	A minimum GPA of 2.0 is required for graduation

GEP FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current: Proposed: X

DEGREE TITLE: Bachelor of Science in Microbiology

CONCENTRATION TITLE: Microbial Health Science

CURRENT DEGREE KEY: 17MBOBS-17MBOHS

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BIO 181 Intro Biology: Ecol, Evol, Biodiversity ¹	4	BIO 183 Intro Biology: Cellular & Molecular ¹	4
CH 101 Chem Molecular Sci ¹	3	CH 221 Organic Chem I ¹	3
CH 102 Gen Chem Lab ¹	1	CH 222 Organic Chem I lab ¹	1
LSC 101 Critical Creative Thinking Life Sci ¹	3	MA 231 Calculus II ^{3,4}	3
MA 131 Calculus I ^{1,2}	3	ENG 101 Acad Writing Rsrch	4
MB 103 Intro Topics Micro ³	1	GEP Social Science Elective *	3
Fitness and Wellness Course *	1		
	Total:15		Total:15
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 Organic Chem II ¹	3	CH 201 Chem Quant Sci ¹	3
CH 224 Organic Chem II lab ¹	1	CH 202 Chem Quant Lab ¹	1
PY 211 Gen Physics I ^{1,5,4}	4	PY 212 Gen Physics II ^{1,7,6}	4
ST 311 Intro Statistics ^{1,6,5}	3	GEP Humanities Elective *	3
GEP Social Science Elective *	3	MB 351 Gen Microbiol ¹	3
Physical Education/Healthy Living Elective *	1	MB 354 Inquiry Guided Micro Lab ¹	1
	Total:15		Total:15
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 333 Comm Sci Res	3	Cell/Physiology Elective ^{1,8,7}	3
GN 311 Princ Genetics ¹	4	Biochemistry elective ^{1,12,11}	4
MB 411 Medical Micro ¹	3	Laboratory Elective ^{1,9,8}	3
MB 412 Med Micro Lab ¹	1	GEP Additional Breadth Elective *	3
GEP Social Science Elective	3	Microbial health science elective ^{1,10,9}	3
Microbial health science elective ^{1,10,9}	3		
	Total:14		Total:16
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
MB 414 Metabolic Reg ¹	3	MB 480 Topical Issues Micro ¹	1
Gene Expression Elective ^{1,11}	3	MB 451 Micro Diversity ¹	3
Microbial health science elective ^{1,10,9}	3	MB 452 Micro Diversity lab ¹	2
Free Elective	3	Microbiology health science elective ^{1,10,9}	3
GEP Humanities Elective *	3	GEP IP Elective *	3
		Microbial Health Science Elective ^{1,10}	3
	Total:15		Total:15
Minimum Credit Hours Required for Graduation*: 123 120			

Major/Program Footnotes:

¹ A minimum grade of C- is required for these courses

² or MA 141 (MA 131 recommended)

³ or LSC 103

⁴ or MA 241 for those students who have credit for MA 141 (MA 231 recommended)

⁵ or PY 201 or PY 205 (PY 211 recommended)

⁶ or ST 371 for those with credit for MA 141 and MA 241 (ST 311 recommended)

⁷ or PY 202 or PY 208 (PY 212 recommended)

⁸ BIO 414, PB 414, ~~BIO 424~~, BIO240, BIO 245, or PB 421

⁹ At least 3 credits of GN 312, BCH 452, MB 360 or any 400-level BEC or BIT courses

¹⁰ Select at least 3 credit hours from MB/FS 405/406, MB 435, MB 441, MB 461, GPH 201, PHI/STS 325, GN 441

¹¹ Either BCH 453 or GN 413

¹² Either BCH 351 or BCH 451

***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)

In Microbiology, this GEP requirement is met through the Major course requirements.

Natural Sciences (7 credit hours - include one laboratory course or course with a lab)

In Microbiology, this GEP requirement is met through the Major course requirements.

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

Choose from the University approved GEP Humanities course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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

Choose from the University approved GEP Social Sciences course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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) *Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.*

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. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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.

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.

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

CURRICULUM REQUIREMENTS PROPOSED

Degree Title: Bachelor of Science in Microbiology, Microbial Health Science Concentration

Current Degree Key: 17MBIOBS-17MBIOHS

Effective Date of Revision:

MAJOR FIELD OF STUDY REQUIREMENTS:	Credit Hours	GEP category, if applicable
<i>Required Courses/Groups/ Electives:</i>		
Indicate if course or course groupings have a C-wall or MGPA requirement		List GEP category and hours satisfied by a Major requirement
All courses in the Major Field of Study have a C-wall requirement.		
<u>Microbiology</u> MB 351, MB 354, MB 411, MB 412, MB 414, MB 451, MB 452 and MB 480	17	Natural Sciences (7 hours)
<u>Mathematics</u> Calculus I: MA 131 or MA 141 Calculus II: MA 231 or MA 241 Statistics: ST 311 or ST 371	3 3 3	Mathematics (6 hours)
<u>Chemistry</u> CH 101, CH 102, CH 201, CH 202, CH 221, CH 222, CH 223 and CH 224	16	
<u>Physics</u> Physics I: PY 211, PY 201, or PY 205 Physics II: PY 212, PY 202, or PY 208	4 4	
<u>Biology:</u> BIO 181 and BIO 183	8	
<u>Advanced sciences</u> GN 311 Biochemistry: BCH 351 or BCH 451 Gene Expression: BCH 453 or GN 421 Cell/physiology: BIO/PB 414 or BIO/PB 421 or BIO240 or BIO245 Laboratory electives GN 312, BCH 452, MB 360, BEC 4**, BIT 4**	4 4 3 3 3	
<u>Scientific Communication</u> ENG 333	3	Satisfies Communication in the Major GEP co-requisite
<u>Life Sciences First Year</u> LSC 101	2	Satisfies 2 hours of Interdisciplinary Perspectives in the Major GEP requirements
<u>Concentration Courses/Groups/Electives:</u> Micro Health Electives: MB/FS 405, MB/FS 406, MB 435, MB 441, MB 461, GN 441, GPH 201, PHI/STS 325	15	
<u>Free Electives:</u>	3	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	98 95 hours	
COLLEGE REQUIREMENTS:		
<u>Orientation Course(s):</u> MB 103 or LSC 103	1	

Other: none		
Total credit hours under College Requirements:	1 hour	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS

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.

Specific courses should not be listed in any of the fields below other than ENG 101.

At least one of the following must be listed:

- 13 Choose course(s) from the University Approved GEP course list for this category.
- 14 Minimum requirements are satisfied by Major/College course requirements.
- 15 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.
- 16 Co-requisite is satisfied by a Major/College course requirement.
- 17 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
- 18 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) 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.	X	(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) 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.	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) (Courses from two different disciplines) 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.	6	(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) 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.	6	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) 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.	3	(Choose statement 5 or 6) Choose course(s) from the University Approved GEP course list for this category
Interdisciplinary Perspectives (5-6 credits) 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.	3	(Choose statement 1, 2 or 3) Major/College course requirement satisfies 2 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category
Physical Education/Healthy Living (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category. Choose course(s) from the University Approved GEP course list for this category
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	24 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	(Choose statement 1 or 4) Choose course(s) from the University Approved GEP course list for this category
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) 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.	123 120 Total hours	A minimum GPA of 2.0 is required for graduation

GEP FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current: Proposed: X

DEGREE TITLE: Bachelor of Science in Microbiology

CONCENTRATION TITLE: Microbial Research

CURRENT DEGREE KEY: 17MBIOBS-17MBIOMBR

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BIO 181 Intro Biology: Ecol, Evol, Biodiversity ¹	4	BIO 183 Intro Biology: Cellular & Molecular ¹	4
CH 101 Chem Molecular Sci ¹	3	CH 221 Organic Chem I ¹	3
CH 102 Gen Chem Lab ¹	1	CH 222 Organic Chem I lab ¹	1
LSC 101 Critical Creative Thinking Life Sci ¹	2	MA 231 Calculus II ^{3,4}	3
MA 131 Calculus I ^{1,2}	3	ENG 101 Acad Writing Rsrch	4
MB 103 Intro Topics Micro ³	1	GEP Social Science Elective *	3
Fitness and Wellness Course *	1		
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 Organic Chem II ¹	3	CH 201 Chem Quant Sci ¹	3
CH 224 Organic Chem II lab ¹	1	CH 202 Chem Quant Lab ¹	1
PY 211 Gen Physics I ^{1,3,4}	4	PY 212 Gen Physics II ^{1,7,6}	4
ST 311 Intro Statistics ^{1,6,5}	3	GEP Humanities Elective *	3
GEP Social Science Elective *	3	MB 351 Gen Microbiol ¹	3
Physical Education/Healthy Living Elective *	1	MB 354 Inquiry Guided Micro Lab ¹	1
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 333 Comm Sci Res	3	Cell/Physiology Elective ^{1,8,7}	3
GN 311 Princ Genetics ¹	4	Biochemistry elective ^{1,12,11}	4
MB 411 Medical Micro ¹	3	Laboratory Elective ^{1,9,8}	3
MB 412 Med Micro Lab ¹	1	GEP Additional Breadth Elective *	3
GEP Social Science Elective *	3	Micro Research Elective ^{1,10,9}	3
MB 360 Sci Inquiry Micro ¹	3		
	<i>Total:17</i>		<i>Total:16</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
MB 414 Metabolic Reg ¹	3	MB 480 Topical Issues Micro ¹	1
Gene Expression Elective ^{1,11,10}	3	MB 451 Micro Diversity ¹	3
Micro Research Elective ^{1,10,9}	3	MB 452 Micro Diversity lab ¹	2
Micro Research Elective ^{1,10,9}	3	GEP IP Elective *	3
GEP Humanities Elective *	3	Micro Research Elective ^{1,10,9}	3
		Free Elective	3
	<i>Total:15</i>		<i>Total:15</i>
Minimum Credit Hours Required for Graduation*: 123 120			

Major/Program Footnotes:¹ A minimum grade of C- is required for these courses² or MA 141 (MA 131 recommended)³ or LSC 103⁴ or MA 241 for those students who have credit for MA 141 (MA 231 recommended)⁵ or PY 201 or PY 205 (PY 211 recommended)⁶ or ST 371 for those with credit for MA 141 and MA 241 (ST 311 recommended)⁷ or PY 202 or PY 208 (PY 212 recommended)⁸ BIO 414, PB 414, BIO 424, BIO 240, BIO 245, or PB 421⁹ Select at least 3 credits of GN 312, BCH 452, MB 360 or any 400-level BEC or BIT courses¹⁰ Select at least 3 credit hours from MB 492, or ~~MB 493~~ BSC 493, or BSC 492 (** 492, ** 493, ALS 498, ALS 499 with departmental approval)¹¹ Either BCH 453 or GN 413¹² Either BCH 351 or BCH 451

***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)

In Microbiology, this GEP requirement is met through the Major course requirements.

Natural Sciences (7 credit hours - include one laboratory course or course with a lab)

In Microbiology, this GEP requirement is met through the Major course requirements.

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

Choose from the University approved GEP Humanities course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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

Choose from the University approved GEP Social Sciences course list. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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) *Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.*

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. Some of these courses fulfill the US Diversity or Global Knowledge co-requisites.

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.

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.

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

**CURRICULUM REQUIREMENTS
PROPOSED**

Created Fall 2018 for 120 credit reduction

Degree Title: Bachelor of Science in Microbiology, Microbial Research Concentration

Current Degree Key: 17MBIOBS-17MBIOMBR

Effective Date of Revision:

MAJOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	<i>GEP category, if applicable</i>
<p>Indicate if course or course groupings have a C-wall or MGPA requirement</p> <p>All courses in the Major Field of Study have a C-wall requirement.</p> <p>Microbiology MB 351, MB 354, MB 411, MB 412, MB 414, MB 451, MB 452 and MB 480</p> <p>Mathematics Calculus I: MA 131 or MA 141 Calculus II: MA 231 or MA 241 Statistics: ST 311 or ST 371</p> <p>Chemistry CH 101, CH 102, CH 201, CH 202, CH 221, CH 222, CH 223 and CH 224</p> <p>Physics Physics I: PY 211, PY 201, or PY 205 Physics II: PY 212, PY 202, or PY 208</p> <p>Biology: BIO 181 and BIO 183</p> <p>Advanced sciences GN 311 Biochemistry: BCH 351 or BCH 451 Gene Expression: BCH 453 or GN 421 Cell/physiology: BIO/PB 414 or BIO/PB 421 or BIO240 or BIO245 Laboratory electives GN 312, BCH 452, MB 360, BEC 4**, BIT 4**</p> <p>Scientific Communication ENG 333</p> <p>Life Sciences First Year LSC 101</p>	<p>17</p> <p>3</p> <p>3</p> <p>3</p> <p>16</p> <p>4</p> <p>4</p> <p>8</p> <p>4</p> <p>4</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p>	<p>List GEP category and hours satisfied by a Major requirement</p> <p>Natural Sciences (7 hours)</p> <p>Mathematics (6 hours)</p> <p>Satisfies Communication in the Major GEP co-requisite</p> <p>Satisfies 2 hours of Interdisciplinary Perspectives in the Major GEP requirements</p>
Concentration Courses/Groups/Electives:		
MB 360	3	
Micro Research Electives: MB BSC 492 or MB BSC 493	12	
Free Electives:	3	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	98 95 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): MB 103 or LSC 103	1	

<u>Other:</u> none		
Total credit hours under College Requirements:	1 hour	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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 may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i>		19 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>		20 Minimum requirements are satisfied by Major/College course requirements.
		21 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.
		22 Co-requisite is satisfied by a Major/College course requirement.
		23 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
		24 Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
General Education Program Requirements:	Credit hours	How will the GEP requirement be met?
<i>Minimum 39-40 hrs</i>		(Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits) <i>(At least 1 course with MA or ST prefix)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major/College course requirements
Natural Sciences (7 credits) <i>(At least 1 lab course or course with a lab)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Minimum requirements are satisfied by Major/College course requirements
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) <i>(Courses from two different disciplines)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category
Social Sciences (6 credits) <i>(Courses from two different disciplines)</i> <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	<i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category
Additional Breadth (3 credits) <i>(Choose approach that is different from the approach of the Major)</i> <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	<i>(Choose statement 5 or 6)</i> Choose course(s) from the University Approved GEP course list for this category
Interdisciplinary Perspectives (5-6 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>	3	<i>(Choose statement 1, 2 or 3)</i> Major/College course requirement satisfies 2 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
Physical Education/Healthy Living (2 credits) <i>(Including one Fitness and Wellness course)</i>	2	<i>Choose course(s) from the University Approved GEP course list for this category.</i> Choose course(s) from the University Approved GEP course list for this category
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	24 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.	123 120 Total hours	A minimum GPA of 2.0 is required for graduation



Memorandum

To: University Courses and Curriculum Committee
 From: Dr. Jason Swarts, Director of Undergraduate Programs in English
 Re: Revision of the Linguistics Minor (16LIM)
 Date: March 20, 2018

Proposed Changes

Effective: 8/2018

1. Move COM 315 from Area III to Area II.
2. Include all Area II classes in Area IV and remove "One additional course from Area II."
3. Add ENG 329 "Language in Globalization" to Area II
4. Small updates:
 - a. Remove "[Course currently going through approval process]" from SOC 207
 - b. Update COM 315 to ENG 315 (approved transfer of ownership)
 - c. Update COM 335 to ENG 335 (approved transfer of ownership)
 - d. Update "ENG 32 History of English" (Area II) to "ENG 326 History of the English Language"
 - e. Update "E G 536 Research Methods in Phonology" (Area IV) to "ENG 536 Research Methods in Phonology"
 - f. Clarify number of courses required in each Area

Current Requirements	Proposed Requirements
1 course from each Area needs to be completed:	
Area I ENG 210 Introduction to Language and Linguistics ENG 524 Introduction to Linguistics	Area I <u>(one course)</u> ENG 210 Introduction to Language and Linguistics ENG 524 Introduction to Linguistics
Area II ENG 298 Special Projects in English (where relevant) ENG 324 Modern English Syntax ENG 325 Spoken and Written Traditions of American English Dialects ENG 32 History of English ENG 327 Langue and Gender ENG 328 Language and Writing	Area II <u>(one course)</u> ENG 298 Special Projects in English (where relevant) <u>ENG 315 Phonetics</u> ENG 324 Modern English Syntax ENG 325 Spoken and Written Traditions of American English Dialects <u>ENG 326 History of the English Language</u> ENG 327 Langue and Gender

FLS 333 The Sounds of Spanish	ENG 328 Language and Writing <u>ENG 329 Language in Globalization¹</u> FLS 333 The Sounds of Spanish
Area III ANT 254 Language and Culture COM 315 Phonetics ¹ COM 335 Language Development ² FL 424/524 Linguistics for ESL Professionals PHI 331 Philosophy of Language PHI 425 Introduction to Cognitive Science SOC 207 Sociology of Language [Course currently going through approval process]	Area III (<u>one course</u>) ANT 254 Language and Culture <u>ENG 335 Language Development</u> FL 424/524 Linguistics for ESL Professionals PHI 331 Philosophy of Language PHI 425 Introduction to Cognitive Science <u>SOC 207 Sociology of Language</u>
Area IV (two courses) ENG 491 Honors Seminar (where relevant) ENG 494 Special Topics in Linguistics ENG 498 Special Topics in English (where relevant) ENG 523 Language Variation Research Seminar ENG 525 Variety in Language ENG 527 Critical Discourse Analysis ENG 528 Sociophonetics ENG 532 Narrative Analysis ENG 533 Bilingualism and Language Contact ENG 534 Quantitative Analysis in Sociolinguistics ENG 536 Research Methods in Phonology ENG 584 Studies in Linguistics ENG 722 Linguistics and Literacy FL 508 Second Language Acquisition Research: Interlanguage Development FLF 502 Variety in Language: French FLF 503 Issues in the Acquisition of L1 and L2 French FLS 402 Introduction to Spanish Linguistics FLS 405 Spanish-English Comparative Grammar FLS 502 Linguistic Structure of Spanish FLS 503 Spanish Applied Linguistics FLS 504 Spanish Language Change and Variation FLS 509 Spanish Phonetics and Phonology FLS 515 History of Spanish One additional course from Area II	Area IV (<u>two courses</u>) <u>ENG 298 Special Projects in English (where relevant)</u> <u>ENG 315 Phonetics</u> <u>ENG 324 Modern English Syntax</u> <u>ENG 325 Spoken and Written Traditions of American English Dialects</u> <u>ENG 326 History of the English Language</u> <u>ENG 327 Language and Gender</u> <u>ENG 328 Language and Writing</u> <u>FLS 333 The Sounds of Spanish</u> ENG 491 Honors Seminar (where relevant) ENG 494 Special Topics in Linguistics ENG 498 Special Topics in English (where relevant) ENG 523 Language Variation Research Seminar ENG 525 Variety in Language ENG 527 Critical Discourse Analysis ENG 528 Sociophonetics ENG 532 Narrative Analysis ENG 533 Bilingualism and Language Contact ENG 534 Quantitative Analysis in Sociolinguistics <u>ENG 536 Research Methods in Phonology</u> ENG 584 Studies in Linguistics ENG 722 Linguistics and Literacy FL 508 Second Language Acquisition Research: Interlanguage Development FLF 502 Variety in Language: French FLF 503 Issues in the Acquisition of L1 and L2 French FLS 402 Introduction to Spanish Linguistics

¹ Currently going through the approval process

Course dropped approved for Peoplesoft 05/05/18 4:00 am

	FLS 405 Spanish-English Comparative Grammar FLS 502 Linguistic Structure of Spanish FLS 503 Spanish Applied Linguistics FLS 504 Spanish Language Change and Variation FLS 509 Spanish Phonetics and Phonology FLS 515 History of Spanish
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Justification

Move COM 315 from Area III to Area II: The course is now being taught by NC State Linguistics faculty members. It's linguistics content has been solidified so the class is now more in alignment with Area II (core undergraduate linguistics classes). A secondary rationale is that the new configuration will be useful to students who hope to enter grad school for speech and language pathology (true for many of our minors). Speech and Language Pathology programs require both phonetics and language acquisition (COM 335), so having both in Area III (adjacent linguistics classes) creates a potential conflict for students. We believe this move satisfies the vision we have for the minor and meets the needs of our students.

Include all Area II classes in Area IV and remove "One additional course from Area II": Currently, Area IV is populated with mostly ENG grad classes and classes with a high FL_ pre-requisite (a product of input from Foreign Languages). We believe that a linguistics minor could consist of a strong foreign language study component, but that it doesn't have to. For example, we believe strongly that a very strong minor could consist of an Introductory class, three core linguistics classes, and one adjacent class. In fact, this experience is more coherent than what the current distribution promotes. At the same time, we do not want to prevent our minors from taking graduate level classes. This change will accommodate more paths to completing the minor, all of which result in still require a robust exposure to linguistics.

Add ENG 329 "Language in Globalization" to Area II: Language and Globalization has been established as a new class and is taught by core faculty in Linguistics at NC State. The course examines sociolinguistic theories related to language change, language contact, language shift, and language policy in the modern, increasingly interconnected world. One conceptualization of the class is that it is the continuation of the History of English class (ENG 326), as it examines the current unfolding of the future of English and other languages in a global context. The course readings, topics, and activities align it with other core undergraduate linguistics classes in terms of the linguistic content and rigor.

Courses, Curricula, and Academic Standards

≡ MAIN MENU

Linguistics (16LIM)

Description

The Department of English offers a minor in Linguistics to N.C. State students, except LWR English majors. The minor is designed to investigate the structure and function of language as a cognitive and behavioral science. Five courses in designated areas of linguistics are required in the minor. Among students likely to be attracted to this minor are those who expect to pursue graduate study in linguistics, those interested in foreign languages or English as a second language, and those interested in communication sciences. No courses for the minor may be taken for S/U credit.

Requirements

- › Completion of 15 credit hours of designated courses, all at the 200 level or above.
- › At least 3 courses must be above the 200 level.
- › Must also complete the study of a foreign language through the 201 level.
- › Must have an overall GPA of 2.0 in the minor and may count no course lower than a 'C-'.
› At least 9 hours must be taken in residency at NC State.
- › Transfer credits must be evaluated by Dr. Reaser, regardless of their disposition by any other office of the University.
- › Courses for the linguistics minor must be exclusive of all courses counting toward the major.
- › A maximum of TWO (2) courses may be used (double-counted) towards both departmental major requirements and minor requirements.

Required Courses

1 course from each Area needs to be completed:

Area I one course

- › ENG 210 Introduction to Language and Linguistics
- › ENG 524 Introduction to Linguistics

Area II one course

- › ENG 298 Special Projects in English (where relevant)
- › ENG 324 Modern English Syntax
- › ENG 325 Spoken and Written Traditions of American English Dialects
- › ~~ENG 326 History of English~~ ENG 326 History of the English Language
- › ENG 327 Language and Gender
- › ENG 328 Language and Writing
- › FLS 333 The Sounds of Spanish

Add
COM 315 Phonetics to Area II

Add
ENG 329 Language in Globalization to
Area II (currently undergoing review)

Area III one course

- › ANT 254 Language and Culture
- › ~~COM 315 Phonetics~~
- › COM 335 Language Development
- › FL 424/524 Linguistics for ESL Professionals
- › PHI 331 Philosophy of Language
- › PHI 425 Introduction to Cognitive Science
- › SOC 207 Sociology of Language [~~Course currently going through approval process~~]

Area IV two courses + two courses

- > ENG 494 Special Topics in Linguistics
- > ENG 498 Special Topics in English (where relevant)
- > ENG 523 Language Variation Research Seminar
- > ENG 525 Variety in Language
- > ENG 527 Critical Discourse Analysis
- > ENG 528 Sociophonetics
- > ENG 532 Narrative Analysis
- > ENG 533 Bilingualism and Language Contact
- > ENG 534 Quantitative Analysis in Sociolinguistics

Add all courses from Area II to Area IV, including COM 315 and ENG 329

IG 536

- ~~ENG 536~~ Research Methods in Phonology
- > ENG 584 Studies in Linguistics
- > ENG 722 Linguistics and Literacy
- > FL 508 Second Language Acquisition Research: Interlanguage Development
- > FLF 502 Variety in Language: French
- > FLF 503 Issues in the Acquisition of L1 and L2 French
- > FLS 402 Introduction to Spanish Linguistics
- > FLS 405 Spanish-English Comparative Grammar
- > FLS 502 Linguistic Structure of Spanish
- > FLS 503 Spanish Applied Linguistics
- > FLS 504 Spanish Language Change and Variation
- > FLS 509 Spanish Phonetics and Phonology
- > FLS 515 History of Spanish
- > ~~One additional course from Area II~~

Elective Courses

None

Admissions

Students may declare their intention to complete the linguistics minor should consult with Dr. Jeffrey Reaser as listed below.

Certification

Dr. Reaser 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

Dr. Jeffrey Reaser
 285 Tompkins Hall
 919.515.4176
jreaser@ncsu.edu

SIS Code: 16LIM

PRINTER FRIENDLY VERSION

CURRICULUM REQUIREMENTS

Format B Minor Adapted

<u>Minor Plan Title:</u> Linguistics	<u>Plan SIS Code:</u> 16LIM
<u>Concentration/Subplan Title:</u> n/a	<u>Subplan SIS Code:</u> n/a
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2188
<u>New Minor 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.	

MINOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	<i>Notes</i>
<p>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.</p>		
<i>C- or better required</i>		
<p>Area I (Requirement: 000031893) ENG 210, 524</p>	3	
<p>Area II (Requirement: 000031894) ENG 298, [add] ENG 315, 324, 325, 326, 327, 328, [add] ENG 329, 422, FLS 333, WGS 327</p>	3	
<p>Area III (Requirement: 000031895) ANT 254, [add] ENG 335 [delete dropped course] COM 315, FL 424, 524, PHI 331, 425, 525, PSY 425, 525, SOC 207</p>	3	
<p>Area IV Elective (Requirement: 000033358) [add] ENG 298, 315, 324, 325, 326, 327, 328, 329, 422, 491, 494, 498, 523, 525, 527, 528, 532, 533, 534, 536, 722, 727, FL 508, FLF 502, FLS [add] FLS 333, 402, 405, 502, 503, 504, 509, 515 [add] WGS 327</p>	3 6	
<p>Foreign Language 201-Level (Requirement: 000033297) <i>This is a verify requirement and does not require additional hours. Courses that meet this requirement can also satisfy other academic requirements.</i> FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, GRK 201, LAT 201, PER 201</p>		
<p>Total credit hours required to complete minor <i>Minimum 15 hours required</i></p>	15	

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

DEPARTMENT(S):

English

TYPE OF PROPOSAL:

New Minor: _____

TITLE OF THE MINOR:

Linguistics (16LIM)

Revision to Minor: X

Discontinuation: _____

PROPOSED EFFECTIVE DATE: 8/2018 APPROVED EFFECTIVE DATE: _____

ATTACHMENTS INCLUDED:

1. Statement of Justification - x
2. Statement of Academic Minor Program Objectives
3. List of Courses constituting the Proposed Minor - x
4. Catalog Description of Proposed Minor - x
5. Administration of the Minor (Contact information for Administrator of the Minor) - x
6. Requirements for Admission and Completion of the Minor
7. Statement on Other Departments Likely to be Affected and Summary of Consultations with those Departments
8. Optional: Projected Resources and Enrollment

REQUIRED SIGNATURES:

OTHER REQUIRED SIGNATURES AS NEEDED:

Laura Seaman 4/2/18
Head, Department/Program Date

Chair, College Curriculum Committee Date

Chair, College Curriculum

Date

College Dean Date

College Dean

Chair, University Courses & Curricula Committee Date

Dean, Division of Academic and Student Affairs (DASA) Date



Memo – Minor Action

To: College of Humanities and Social Sciences Directors of Undergraduate Programs
University Courses and Curriculum Committee

From: Rodney Waschka II, Director of Arts Studies

Date: September 27, 2018

Subject: Linking course list for 16ARTSTBA all sub-plans

Please change the linking course list for all concentrations to:

ARS 251	The Arts of a World Capital: London
ARS 252	The Arts of Vienna 1900
ARS/STS 257	Technology in the Arts
ARS 259	The Arts and Politics
ARS 351	Arts, Ideas and Values
ARS 353	Arts and Cross-Cultural Contacts
ARS 354	The Arts and the Sacred
EMA 365	Foundations in Arts Entrepreneurship
ENG 382	Film and Literature
ENG 496/IDS 492	Topics in Film and Interdisciplinary Studies

Currently, the linking course lists for students in this degree program include courses that do not fit the criteria for these courses and the lists vary from student to student. The impact of this revision will be to return to a list that only includes courses that fulfill the linking course criteria and to standardize the list for all Arts Studies students.

Arts Studies regularly offers these courses.

The proposed effective date for this revision is Spring 2019.

16ARTSTBA 16ARTSTFLM (Requirement: 000024001)

16ARTSTBA 16ARTSTMUS (Requirement: 000024094)

16ARTSTBA 16ARTSTTHE (Requirement: 000024187)

16ARTSTBA 16ARTSTVIS (Requirement: 000024187)

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: **X** Proposed: Proposed Effective Semester: **clean**

Degree/Plan Title: BA/Arts Studies

Concentration/Subplan Title: Film Studies

Plan SIS Code: 16ARTSTBA

Subplan SIS Code: 16ARTSTFLM

New Degree Audit required? (Y or N) **N**

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	History & Analysis Foundation Course ^{10, 14}	3
Foreign Language 201 ^{K,8}	3	History I ^{C, 1}	3
History & Analysis Foundation Course ^{10, 14}	3	GEP Mathematics ^A	3
GEP Natural Science w/ Lab ^B	4	GEP Natural Science ^B	3
GEP HES 1** Fitness & Wellness ^E	1	Social Science ^{D, 7}	3
	Total:15		Total:15
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
History & Analysis Foundation Course ^{10, 14}	3	History & Analysis Foundation Course ^{10, 14}	3
History II ²	3	History & Analysis Foundation Course ^{10, 14}	3
Literature I ³	3	Literature II ⁴	3
GEP Mathematics ^A	3	Social Science ⁷	3
Social Science ^{D,7}	3	GEP Interdisciplinary Perspectives ^G	3
	Total:15		Total:15
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Production Foundation Course ^{11, 14}	3	Advised Elective ¹³	3
Arts & Letters ⁶	3	Linking Foundation Course ^{12, 14}	3
Philosophy ^{C, 5}	3	GEP Interdisciplinary Perspectives ^G	2
Social Science ⁷	3	Free Electives ⁹	7
Free Electives ⁹	3		
GEP Health & Exercise Studies ^E	1		
	Total:16		Total:15
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Production Foundation Course ^{11, 14}	3	ARS 494 Topics in Arts Studies	3
Linking Foundation Course ^{12, 14}	3	Free Electives ⁹	11
GEP Additional Breadth (Math/Nat Sci) ^F	3		
Free Electives ⁹	6		
	Total:15		Total:14
Minimum Credit Hours Required for Graduation^{*I, J, K, 14, 15, 16.} 120			

Major/Program Footnotes:

- History I** One 3-credit course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western)
- History II** One 3-credit course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture)
- Literature I** One 3-credit hour course required from the College-approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)

4. **Literature II** One 3-credit hour course required from the College-approved Literature II list. (any course that meets the Literature I requirement; or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language)
5. **Philosophy** Any PHI course on the approved GEP-Humanities list
6. **Arts and Letters** One 3-credit hour course is required from the College-approved Arts & Letters course list
7. **Social Sciences** Twelve (12) credit hours, selected from College-approved list, required from three different disciplines, six (6) must be on GEP-Social Sciences list.
8. **Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination
9. **Free Electives** Maximum 12 credit hours of free electives may be taken for credit only (S/U)
10. **History and Analysis Foundation Courses** – Fifteen (15) credit hours required from approved list.
11. **Production Foundation Courses** – Six (6) hours required from approved list.
12. **Linking Foundation Courses** – Six (6) hours required from approved list of courses that link the arts to other areas.
13. **Advised Elective** – Advisor approval required.
14. **Departmental Requirements** – A minimum of 15 credit hours must be 300-level courses or higher.
15. **Major Residency Requirements** - A maximum of 15 credit hours of external transfer credit may be applied towards departmental (major) requirements.
16. **Major Grade Point Average (MGPA) Requirements** – Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA is required for graduation.

***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:
- 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:
- 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
- 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: Minimum requirements are satisfied by College Social Sciences requirement.
- 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)
_____ Humanities/Social Sciences/Visual and Performing Arts or X 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.

CURRICULUM REQUIREMENTS**Format B**

Degree/Plan Title: BA/Arts Studies	Plan SIS Code: 16ARTSTBA
Concentration/Subplan Title: Film Studies	Subplan SIS Code: 16ARTSTFLM
Indicate requirements status: Current: Proposed: X	Proposed Effective Semester: 2191
New Degree Audit required? (Y or N) N	
Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
<p>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.</p> <p><i>C- or better required</i></p> <p>History & Analysis (Requirement: 000023999) AFS 375, COM 374, ENG 282, 292, 374, 375, 378, 384, 492, FLM 378, IDS 496</p> <p>Production Courses (Requirement: 00024000) COM 444, ENG 330</p> <p>[Update electives] Linking Courses (Requirement: 000024001) ARS 251, 252, 257, 259, 351, 353, 354, EMA 365, ENG 382, 496, IDS 492, STS 257</p> <p>ARS 494 Topics Art Studies</p> <p>Advised Elective (Requirement: 000024002) Courses taken for this requirement must be pre-approved by the department. Please contact your advisor about meeting this requirement.</p>	<p>15</p> <p>6</p> <p>3</p> <p>3</p> <p>3</p>	<p>List GEP category and hours satisfied by a Major requirement</p>
Concentration Courses/Groups/Electives:		
<p>Free Electives: (Requirement: 000024003) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101</p>	27	
<p>Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i></p>	60	
COLLEGE REQUIREMENTS:		

Orientation Course(s):		
<p>Other: History I (Requirement: 000019312) - A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the College-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p>	3	Humanities (3)
<p>History II (Requirement: 000019313) - A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the College-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p>	3	
<p>Literature I (Requirement: 000019314) - A survey course covering literature outside the U.S. and prior to the 20th century required. Choose one 3-credit hour course from the College-approved Literature 1 list. CLA 210, 320, ENG 219, 220, 221, 222, 251, 255, 261 or 262 (but not both), 361, FL 219, 220, 221, 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 HON 293 Honors Special Topics-Literature</p>	3	
<p>Literature II (Requirement: 000019315)- Any course that meets the Literature I requirement, or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language required. Choose one 3-credit hour course from the College-approved Literature list. List A - AFS 248, 349, 448, CLA 210, 320, ENG 207, 208, 209, 219, 220, 221, 222, 223, 224, 232, 233, 246, 248, 249, 251, 252, 261, 262, 265, 266, 267, 275, 305, 339, 340, 341, 342, 349, 361, 362, 369, 370, 372, 376, 377, 380, 382, 385, 390, 392, 393, 394, 398, 399, 406, 407, 410, 420, 439, 448, 449, 451, 452, 452, 460, 462, 463, 464, 465, 466, 468, 469, 470, 476, 486, 487, FL 219, 220, 221, 223, 224, 246, 392, 393, 394, 406, 407, FLN 301, 302, 401, WGS 305 List B - ENG 219, 220, 221, 223, 224, 246, 255, 392, 393, 394, 406, FL 219, 220, 221, 222, 223, 224, 246, 392, 393, 394, 406, 407, FLF 302, 414, 492, FLG 320, 323, 325, FLJ 342, 344, 345, FLN 301, 302, 401, FLR 303, 304, FLS 340, 341, 342, 343, 351, 352, 353, 492, HON 202, HON 293 Honors Special Topics-Literature</p>	3	
<p>Foreign Language 201 (Requirement: 000019319) FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, 212, GRK 201, LAT 201, or PER 201</p>	3	
<p>Philosophy (Requirement: 00019316) - Any PHI course on the approved GEP-Humanities list</p>	3	Humanities (3)
<p>Arts and Letters (Requirement: 000019317) – Choose one three credit hour course from the College approved Arts and Letters list. ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, 141, ARS 251, 252, 259,</p>	3	

<p>306, 351, 353, 354, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 321, 364, 374, 375, 411, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 181, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 423, 471, 472, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p> <p>Social Science (Requirements: 000023996 & 000019365) <i>(Choose three different disciplines)</i></p> <p>Anthropology: ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 422, 424, 427, 428, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, 501, 529, 585, 587, HI 587, SOC 261, WGS 444</p> <p>Agricultural Economics: ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 420, 425, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436</p> <p>Economics: ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 474, 480, 490, 491, 495, 498</p> <p>Political Science: AFS 409, LPS 315, PS 101, 102, 103, 201, 202, 203, 204, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445, 462, 463, 471, 490, 492, 498, 502, 506, 507, 530, 531, 532, 534, 536, 539, 540, 541, 542, 571, 585, SOC 413, 432, WGS 306, 418</p> <p>Psychology: AFS 345, EDP 304, 476, 582, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425, 430, 431, 436, 470, 475, 491, 495, 498, 499, 502, 504, 508, 510, 511, 541, 553, 558, 758, WGS 406</p> <p>Sociology: AFS 305, ANT 261, 428, GEO 220, PS 432, REL 309, SOC 202, 203, 203A, 204, 205, 206, 207, 220, 241, 241A, 261, 295, 300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395, 400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427, 428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495, 498, 508, 509, 514, 533, 591, WGS 204, 304, 407</p> <p>Multidisciplinary: ENG 210, GEO 220, SOC 220, STS 402</p>	12	Social Science (6)
<p>Total credit hours under College Requirements:</p>	33	

<p><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></p> <p><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></p> <p><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></p>		<p>At least one of the following must be listed:</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 X 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.
<p>General Education Program Requirements: <i>Minimum 39-40 hrs</i></p>	<p><i>Credit hours</i></p>	<p>How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above) <i>(Choose statement 1, 2 or 3)</i></p>
<p>Mathematical Sciences <i>(6 credits)</i> <i>(At least 1 course with MA or ST prefix)</i> <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></p>	<p>6</p>	<p>Choose course(s) from the University Approved GEP course list for this category.</p>
<p>Natural Sciences <i>(7 credits)</i> <i>(At least 1 lab course or course with a lab)</i> <i>Course(s) in the Major may double-count to satisfy this requirement and also</i></p>	<p>7</p>	<p><i>(Choose statement 1, 2 or 3)</i> Choose course(s) from the University Approved GEP course list for this category.</p>

<i>satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>			
English 101 (C- or better required)	(4 credits)	4	ENG 101
Humanities	(6 credits)	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
(Courses from two different disciplines) 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.			
Social Sciences	(6 credits)	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
(Courses from two different disciplines) 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.			
Additional Breadth	(3 credits)	3	(Choose statement 5 or 6) Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
(Choose approach that is different from the approach of the Major) 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.			
Interdisciplinary Perspectives	(5 credits)	5	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
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.			
Health and Exercise Studies	(2 credits)	2	Choose course(s) from the University Approved GEP course list for this category.
(Including one Fitness and Wellness course)			
Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.		27	
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	(Choose statement 1 or 4)
Global Knowledge co-requisite	(GK)	n/a	(Choose statement 1 or 4)
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)			Satisfied by College/Program Requirements
Technology Fluency			Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.		120	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: X Proposed: Proposed Effective Semester: clean

Degree/Plan Title: BA/Arts Studies

Concentration/Subplan Title: Music

Plan SIS Code: 16ARTSTBA

Subplan SIS Code: 16ARTSTMUS

New Degree Audit required? (Y or N) N

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	History & Analysis Foundation Course ^{10, 14}	3
Foreign Language 201 ^{K, 8}	3	History I ^{C, 1}	3
History & Analysis Foundation Course ^{10, 14}	3	GEP Mathematics ^A	3
GEP Natural Science w/ Lab ^B	4	GEP Natural Science ^B	3
GEP HES 1** Fitness & Wellness ^E	1	Social Science ^{D, 7}	3
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
History & Analysis Foundation Course ^{10, 14}	3	History & Analysis Foundation Course ^{10, 14}	3
History II ²	3	History & Analysis Foundation Course ^{10, 14}	3
Literature I ³	3	Literature II ⁴	3
GEP Mathematics ^A	3	Social Science ⁷	3
Social Science ^{D, 7}	3	GEP Interdisciplinary Perspectives ^G	3
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Performance Foundation Course ^{11, 14}	3	Advised Elective ¹³	3
Arts & Letters ⁶	3	Linking Foundation Course ^{12, 14}	3
Philosophy ^{C, 5}	3	GEP Interdisciplinary Perspectives ^G	2
Social Science ⁷	3	Free Electives ⁹	7
Free Electives ⁹	3		
GEP Health & Exercise Studies ^E	1		
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Performance Foundation Course ^{11, 14}	3	ARS 494 Topics in Arts Studies	3
Linking Foundation Course ^{12, 14}	3	Free Electives ⁹	11
GEP Additional Breadth (Math/Nat Sci) ^F	3		
Free Electives ⁹	6		
	<i>Total:15</i>		<i>Total:14</i>
Minimum Credit Hours Required for Graduation ^{*I, J, K, 14, 15, 16}: 120			

Major/Program Footnotes:

- History I** One 3-credit course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western)
- History II** One 3-credit course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture)
- Literature I** One 3-credit hour course required from the College-approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)

4. **Literature II** One 3-credit hour course required from the College-approved Literature II list. (any course that meets the Literature I requirement; or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language)
5. **Philosophy** Any PHI course on the approved GEP-Humanities list
6. **Arts and Letters** One 3-credit hour course is required from the College-approved Arts & Letters course list
7. **Social Sciences** Twelve (12) credit hours, selected from College-approved list, required from three different disciplines, six (6) must be on GEP-Social Sciences list.
8. **Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination
9. **Free Electives** Maximum 12 credit hours of free electives may be taken for credit only (S/U)
10. **History and Analysis Foundation Courses** – Fifteen (15) credit hours required from approved list.
11. **Performance Foundation Courses** – Six (6) hours required from approved list.
12. **Linking Foundation Courses** – Six (6) hours required from approved list of courses that link the arts to other areas.
13. **Advised Elective** – Advisor approval required.
14. **Departmental Requirements** – A minimum of 15 credit hours must be 300-level courses or higher.
15. **Major Residency Requirements** - A maximum of 15 credit hours of external transfer credit may be applied towards departmental (major) requirements.
16. **Major Grade Point Average (MGPA) Requirements** – Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA is required for graduation.

***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:
- 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:
- 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
- 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: Minimum requirements are satisfied by College Social Sciences requirement.
- 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.
- E. **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 X 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.

CURRICULUM REQUIREMENTS

Format B


<u>Degree/Plan Title:</u> BA/Arts Studies	<u>Plan SIS Code:</u> 16ARTSTBA
<u>Concentration/Subplan Title:</u> Music	<u>Subplan SIS Code:</u> 16ARTSTMUS
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2191
<u>New Degree Audit required?</u> (Y or N) N	
<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
<i>C- or better required</i>		
History & Analysis (Requirement: 000024092) AFS 260, MUS 103, 200, 201, 202, 203, 260, 310, 315, 320, 330, 350, 360, 495, WGS 360	15	
Performance Courses (Requirement: 00024093) ARS 306, MUS 107, 112, 113, 114, 115, 121, 122, 131, 132, 134, 140, 141, 142, 143, 144, 150, 207, 300, 305, 306, 498	6	
[Update electives] Linking Courses (Requirement: 000024094) ARS 251, 252, 257, 259, 351, 353, 354, EMA 365, ENG 382, 496, IDS 492, STS 257	3	
ARS 494 Topics Art Studies	3	
Advised Elective (Requirement: 000024002) Courses taken for this requirement must be pre-approved by the department. Please contact your advisor about meeting this requirement.	3	
<u>Concentration Courses/Groups/Electives:</u>		
<u>Free Electives:</u> (Requirement: 000024003) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101	27	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	60	

COLLEGE REQUIREMENTS:		
Orientation Course(s):		
<p>Other: History I (Requirement: 000019312) - A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the College-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p>	3	Humanities (3)
<p>History II (Requirement: 000019313) - A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the College-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p>	3	
<p>Literature I (Requirement: 000019314) - A survey course covering literature outside the U.S. and prior to the 20th century required. Choose one 3-credit hour course from the College-approved Literature 1 list. CLA 210, 320, ENG 219, 220, 221, 222, 251, 255, 261 or 262 (but not both), 361, FL 219, 220, 221, 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 HON 293 Honors Special Topics-Literature</p>	3	
<p>Literature II (Requirement: 000019315)- Any course that meets the Literature I requirement, or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language required. Choose one 3-credit hour course from the College-approved Literature list. List A - AFS 248, 349, 448, CLA 210, 320, ENG 207, 208, 209, 219, 220, 221, 222, 223, 224, 232, 233, 246, 248, 249, 251, 252, 261, 262, 265, 266, 267, 275, 305, 339, 340, 341, 342, 349, 361, 362, 369, 370, 372, 376, 377, 380, 382, 385, 390, 392, 393, 394, 398, 399, 406, 407, 410, 420, 439, 448, 449, 451, 452, 452, 460, 462, 463, 464, 465, 466, 468, 469, 470, 476, 486, 487, FL 219, 220, 221, 223, 224, 246, 392, 393, 394, 406, 407, FLN 301, 302, 401, WGS 305 List B - ENG 219, 220, 221, 223, 224, 246, 255, 392, 393, 394, 406, FL 219, 220, 221, 222, 223, 224, 246, 392, 393, 394, 406, 407, FLF 302, 414, 492, FLG 320, 323, 325, FLJ 342, 344, 345, FLN 301, 302, 401, FLR 303, 304, FLS 340, 341, 342, 343, 351, 352, 353, 492, HON 202, HON 293 Honors Special Topics-Literature</p>	3	
<p>Foreign Language 201 (Requirement: 000019319) FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, 212, GRK 201, LAT 201, or PER 201</p>	3	
<p>Philosophy (Requirement: 00019316) - Any PHI course on the approved GEP-Humanities list</p>	3	Humanities (3)
<p>Arts and Letters (Requirement: 000019317) – Choose one three credit hour course from the College approved Arts and Letters list.</p>	3	

<p>ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, 141, ARS 251, 252, 259, 306, 351, 353, 354, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 321, 364, 374, 375, 411, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 181, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 423, 471, 472, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p> <p>Social Science (Requirements: 000023996 & 000019365) <i>(Choose three different disciplines)</i></p> <p>Anthropology: ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 422, 424, 427, 428, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, 501, 529, 585, 587, HI 587, SOC 261, WGS 444</p> <p>Agricultural Economics: ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 420, 425, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436</p> <p>Economics: ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 474, 480, 490, 491, 495, 498</p> <p>Political Science: AFS 409, LPS 315, PS 101, 102, 103, 201, 202, 203, 204, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445, 462, 463, 471, 490, 492, 498, 502, 506, 507, 530, 531, 532, 534, 536, 539, 540, 541, 542, 571, 585, SOC 413, 432, WGS 306, 418</p> <p>Psychology: AFS 345, EDP 304, 476, 582, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425, 430, 431, 436, 470, 475, 491, 495, 498, 499, 502, 504, 508, 510, 511, 541, 553, 558, 758, WGS 406</p> <p>Sociology: AFS 305, ANT 261, 428, GEO 220, PS 432, REL 309, SOC 202, 203, 203A, 204, 205, 206, 207, 220, 241, 241A, 261, 295, 300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395, 400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427, 428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495, 498, 508, 509, 514, 533, 591, WGS 204, 304, 407</p> <p>Multidisciplinary: ENG 210, GEO 220, SOC 220, STS 402</p>	<p>12</p>	<p>Social Science (6)</p>
<p>Total credit hours under College Requirements:</p>	<p>12</p>	

<p><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></p> <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>		<p><u>At least one of the following must be listed:</u></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.
<p>General Education Program Requirements: Minimum 39-40 hrs</p>	<p><i>Credit hours</i></p>	<p><i>How will the GEP requirement be met?</i> (Choose applicable statement from 1-6 listed above)</p>
<p>Mathematical Sciences (At least 1 course with MA or ST prefix)</p>	<p>(6 credits) 6</p>	<p>Choose course(s) from the University Approved GEP course list for this category.</p>

<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>			
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	(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>	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.	
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	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.	
Additional Breadth (3 credits) (Choose approach that is <i>different</i> 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) Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.	
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) Choose course(s) from the University Approved GEP course list for this category.	
Health and Exercise Studies (2 credits) (Including one <i>Fitness and Wellness</i> course)	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.	27		
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	(Choose statement 1 or 4)	
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4)	
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)		Satisfied by College/Program Requirements	
Technology Fluency		Satisfied by College/Program Requirements	
Total credit hours required to complete Degree: Total must be within 120-128 credit 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: X Proposed: Proposed Effective Semester: clean

Degree/Plan Title: BA/Arts Studies

Concentration/Subplan Title: Theater

Plan SIS Code: 16ARTSTBA

Subplan SIS Code: 16ARTSTTHE

New Degree Audit required? (Y or N) N

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	History & Analysis Foundation Course ¹⁰	3
Foreign Language 201 ^{K,8}	3	History I ^{C,1}	3
History & Analysis Foundation Course ¹⁰	3	GEP Mathematics ^A	3
GEP Natural Science w/ Lab ^B	4	GEP Natural Science ^B	3
GEP HES 1** Fitness & Wellness ^E	1	Social Science ^{D,7}	3
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
History & Analysis Foundation Course ¹⁰	3	History & Analysis Foundation Course ¹⁰	3
History II ²	3	History & Analysis Foundation Course ¹⁰	3
Literature I ³	3	Literature II ⁴	3
GEP Mathematics ^A	3	Social Science ⁷	3
Social Science ^{D,7}	3	GEP Interdisciplinary Perspectives ^G	3
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Performance Foundation Course ¹¹	3	Advised Elective ¹³	3
Arts & Letters ⁶	3	Linking Foundation Course ¹²	3
Philosophy ^{C,5}	3	GEP Interdisciplinary Perspectives ^G	2
Social Science ⁷	3	Free Electives ⁹	7
Free Electives ⁹	3		
GEP Health & Exercise Studies ^E	1		
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Performance Foundation Course ¹¹	3	ARS 494 Topics in Arts Studies	3
Linking Foundation Course ¹²	3	Free Electives ⁹	11
GEP Additional Breadth (Math/Nat Sci) ^F	3		
Free Electives ⁹	6		
	<i>Total:15</i>		<i>Total:14</i>
Minimum Credit Hours Required for Graduation ^{I, J, K, 15, 16:} 120			

Major/Program Footnotes:

- 1. History I** One 3-credit course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western)
- 2. History II** One 3-credit course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture)
- 3. Literature I** One 3-credit hour course required from the College-approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)

4. **Literature II** One 3-credit hour course required from the College-approved Literature II list. (any course that meets the Literature I requirement; or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language)
5. **Philosophy** Any PHI course on the approved GEP-Humanities list
6. **Arts and Letters** One 3-credit hour course is required from the College-approved Arts & Letters course list
7. **Social Sciences** Twelve (12) credit hours, selected from College-approved list, required from three different disciplines, six (6) must be on GEP-Social Sciences list.
8. **Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination
9. **Free Electives** Maximum 12 credit hours of free electives may be taken for credit only (S/U)
10. **History and Analysis Foundation Courses** – Fifteen (15) credit hours required from approved list.
11. **Performance Foundation Courses** – Six (6) hours required from approved list.
12. **Linking Foundation Courses** – Six (6) hours required from approved list of courses that link the arts to other areas.
13. **Advised Elective** – Advisor approval required.
14. **Departmental Requirements** – A minimum of 15 credit hours must be 300-level courses or higher.
15. **Major Residency Requirements** - A maximum of 15 credit hours of external transfer credit may be applied towards departmental (major) requirements.
16. **Major Grade Point Average (MGPA) Requirements** – Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA is required for graduation.

***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:
- 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:
- 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
- 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: Minimum requirements are satisfied by College Social Sciences requirement.
- 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.
- E. **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 X 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:

- L. **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:
- L. **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.

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> BA/Arts Studies	<u>Plan SIS Code:</u> 16ARTSTBA
<u>Concentration/Subplan Title:</u> Theater	<u>Subplan SIS Code:</u> 16ARTSTTHE
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2191
<u>New Degree Audit required?</u> (Y or N) N	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses that 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
<i>C- or better required</i>		
History & Analysis (Requirement: 000024185) COM 498, ENG 206, 380, 486, 487, THE 103, 236, 340, 433	15	
Performance Courses (Requirement: 00024186) THE 203, 223, 293, 303, 323, 334, 403	6	
[Update electives] Linking Courses (Requirement: 000024187) ARS 251, 252, 257, 259, 351, 353, 354, EMA 365, ENG 382, 496, IDS 492, STS 257	3	
ARS 494 Topics Art Studies	3	
Advised Elective (Requirement: 000024002) Courses taken for this requirement must be pre-approved by the department. Please contact your advisor about meeting this requirement.	3	
<u>Concentration Courses/Groups/Electives:</u>		
Free Electives: (Requirement: 000024003) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101	27	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	60	

COLLEGE REQUIREMENTS:		
Orientation Course(s):		
<p>Other:</p> <p>History I (Requirement: 000019312) - A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the College-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p> <p>History II (Requirement: 000019313) - A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the College-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p> <p>Literature I (Requirement: 000019314) - A survey course covering literature outside the U.S. and prior to the 20th century required. Choose one 3-credit hour course from the College-approved Literature 1 list. CLA 210, 320, ENG 219, 220, 221, 222, 251, 255, 261 or 262 (but not both), 361, FL 219, 220, 221, 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 HON 293 Honors Special Topics-Literature</p> <p>Literature II (Requirement: 000019315)- Any course that meets the Literature I requirement, or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language required. Choose one 3-credit hour course from the College-approved Literature list. List A - AFS 248, 349, 448, CLA 210, 320, ENG 207, 208, 209, 219, 220, 221, 222, 223, 224, 232, 233, 246, 248, 249, 251, 252, 261, 262, 265, 266, 267, 275, 305, 339, 340, 341, 342, 349, 361, 362, 369, 370, 372, 376, 377, 380, 382, 385, 390, 392, 393, 394, 398, 399, 406, 407, 410, 420, 439, 448, 449, 451, 452, 452, 460, 462, 463, 464, 465, 466, 468, 469, 470, 476, 486, 487, FL 219, 220, 221, 223, 224, 246, 392, 393, 394, 406, 407, FLN 301, 302, 401, WGS 305 List B - ENG 219, 220, 221, 223, 224, 246, 255, 392, 393, 394, 406, FL 219, 220, 221, 222, 223, 224, 246, 392, 393, 394, 406, 407, FLF 302, 414, 492, FLG 320, 323, 325, FLJ 342, 344, 345, FLN 301, 302, 401, FLR 303, 304, FLS 340, 341, 342, 343, 351, 352, 353, 492, HON 202, HON 293 Honors Special Topics-Literature</p> <p>Foreign Language 201 (Requirement: 000019319) FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, 212, GRK 201, LAT 201, or PER 201</p> <p>Philosophy (Requirement: 00019316) - Any PHI course on the approved GEP-Humanities list</p> <p>Arts and Letters (Requirement: 000019317) – Choose one three credit hour course from the College approved Arts and Letters list.</p>	<p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p>	<p>Humanities (3)</p> <p>Humanities (3)</p>

<p>ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, 141, ARS 251, 252, 259, 306, 351, 353, 354, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 321, 364, 374, 375, 411, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 181, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 423, 471, 472, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p> <p>Social Science (Requirements: 000023996 & 000019365) <i>(Choose three different disciplines)</i></p> <p>Anthropology: ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 422, 424, 427, 428, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, 501, 529, 585, 587, HI 587, SOC 261, WGS 444</p> <p>Agricultural Economics: ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 420, 425, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436</p> <p>Economics: ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 474, 480, 490, 491, 495, 498</p> <p>Political Science: AFS 409, LPS 315, PS 101, 102, 103, 201, 202, 203, 204, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445, 462, 463, 471, 490, 492, 498, 502, 506, 507, 530, 531, 532, 534, 536, 539, 540, 541, 542, 571, 585, SOC 413, 432, WGS 306, 418</p> <p>Psychology: AFS 345, EDP 304, 476, 582, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425, 430, 431, 436, 470, 475, 491, 495, 498, 499, 502, 504, 508, 510, 511, 541, 553, 558, 758, WGS 406</p> <p>Sociology: AFS 305, ANT 261, 428, GEO 220, PS 432, REL 309, SOC 202, 203, 203A, 204, 205, 206, 207, 220, 241, 241A, 261, 295, 300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395, 400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427, 428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495, 498, 508, 509, 514, 533, 591, WGS 204, 304, 407</p> <p>Multidisciplinary: ENG 210, GEO 220, SOC 220, STS 402</p>	<p>12</p>	<p>Social Science (6)</p>
<p>Total credit hours under College Requirements:</p>	<p>33</p>	

<p>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</p> <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>		<p>At least one of the following must be listed:</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.
<p>General Education Program Requirements: <i>Minimum 39-40 hrs</i></p>	<p>Credit hours</p>	<p>How will the GEP requirement be met? <i>(Choose applicable statement from 1-6 listed above)</i></p>
<p>Mathematical Sciences (6 credits) <i>(At least 1 course with MA or ST prefix)</i> <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></p>	<p>6</p>	<p>Choose course(s) from the University Approved GEP course list for this category.</p>
<p>Natural Sciences (7 credits)</p>	<p>7</p>	<p><i>(Choose statement 1, 2 or 3)</i></p>

(At least 1 lab course or course with a lab) 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.		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) 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.	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
Social Sciences (6 credits) (Courses from two different disciplines) 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.	X	(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) 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.	3	(Choose statement 5 or 6) Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
Interdisciplinary Perspectives (5 credits) 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.	5	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
Health and Exercise Studies (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	27	
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	(Choose statement 1 or 4)
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4)
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)		Satisfied by College/Program Requirements
Technology Fluency		Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120	

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: X Proposed: Proposed Effective Semester: clean

Degree/Plan Title: BA/Arts Studies

Concentration/Subplan Title: Visual Arts

Plan SIS Code: 16ARTSTBA

Subplan SIS Code: 16ARTSTVIS

New Degree Audit required? (Y or N) N

Critical Path Courses - Identify using the code (CP) which courses are considered critical path courses that 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
ENG 101 Academic Writing & Research ^H	4	History & Analysis Foundation Course ^{10, 14}	3
Foreign Language 201 ^{K, 8}	3	History I ^{C, 1}	3
History & Analysis Foundation Course ^{10, 14}	3	GEP Mathematics ^A	3
GEP Natural Science w/ Lab ^B	4	GEP Natural Science ^B	3
GEP HES 1** Fitness & Wellness ^E	1	Social Science ^{D, 7}	3
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
History & Analysis Foundation Course ^{10, 14}	3	History & Analysis Foundation Course ^{10, 14}	3
History II ²	3	History & Analysis Foundation Course ^{10, 14}	3
Literature I ³	3	Literature II ⁴	3
GEP Mathematics ^A	3	Social Science ⁷	3
Social Science ^{D, 7}	3	GEP Interdisciplinary Perspectives ^G	3
	<i>Total:15</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Production Foundation Course ^{11, 14}	3	Advised Elective ¹³	3
Arts & Letters ⁶	3	Linking Foundation Course ^{12, 14}	3
Philosophy ^{C, 5}	3	GEP Interdisciplinary Perspectives ^G	2
Social Science ⁷	3	Free Electives ⁹	7
Free Electives ⁹	3		
GEP Health & Exercise Studies ^E	1		
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Production Foundation Course ^{11, 14}	3	ARS 494 Topics in Arts Studies	3
Linking Foundation Course ^{12, 14}	3	Free Electives ⁹	11
GEP Additional Breadth (Math/Nat Sci) ^F	3		
Free Electives ⁹	6		
	<i>Total:15</i>		<i>Total:14</i>
Minimum Credit Hours Required for Graduation ^{*, I, K, 14, 15, 16}: 120			

Major/Program Footnotes:

- History I** One 3-credit course required from the College-approved History I course list (a 200-level survey course covering a culture significantly different from our own, i.e., ancient or non-Western)
- History II** One 3-credit course required from the College-approved History II course list (a 200-level survey course covering our own or a similar culture, i.e., United States or other Western Culture)
- Literature I** One 3-credit hour course required from the College-approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)

4. **Literature II** One 3-credit hour course required from the College-approved Literature II list. (any course that meets the Literature I requirement; or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language)
5. **Philosophy** Any PHI course on the approved GEP-Humanities list
6. **Arts and Letters** One 3-credit hour course is required from the College-approved Arts & Letters course list
7. **Social Sciences** Twelve (12) credit hours, selected from College-approved list, required from three different disciplines, six (6) must be on GEP-Social Sciences list.
8. **Foreign Language** Completion of FLx 201, or comparable proficiency as demonstrated by examination
9. **Free Electives** Maximum 12 credit hours of free electives may be taken for credit only (S/U)
10. **History and Analysis Foundation Courses** – Fifteen (15) credit hours required from approved list.
11. **Production Foundation Courses** – Six (6) hours required from approved list.
12. **Linking Foundation Courses** – Six (6) hours required from approved list of courses that link the arts to other areas.
13. **Advised Elective** – Advisor approval required.
14. **Departmental Requirements** – A minimum of 15 credit hours must be 300-level courses or higher.
15. **Major Residency Requirements** – A maximum of 15 credit hours of external transfer credit may be applied towards departmental (major) requirements.
16. **Major Grade Point Average (MGPA) Requirements** – Courses meeting departmental requirements must receive a grade of C- or better. A 2.0 MGPA is required for graduation.

***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:
- 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:
- 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: Minimum requirements are satisfied by College History I and Philosophy requirements.
- 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: Minimum requirements are satisfied by College Social Sciences requirement.
- 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.
- E. **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 X 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:
- L. **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.

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> BA/Arts Studies	<u>Plan SIS Code:</u> 16ARTSTBA
<u>Concentration/Subplan Title:</u> Visual Arts	<u>Subplan SIS Code:</u> 16ARTSTVIS
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2191
<u>New Degree Audit required?</u> (Y or N) N	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses that 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
<i>C- or better required</i>		
History & Analysis (Requirement: 000032896) ARC 141, 241, HA 201, 202, 203, 298, 395, 401, 404, 410	15	
Production Courses (Requirement: 00032897) ADN 111, 112, 212, 219, 272, 273, 281, 311, 384, 386, 414, 419, ARS 498, TDE 351	6	
[Update electives] Linking Courses (Requirement: 000024187) ARS 251, 252, 257, 259, 351, 353, 354, EMA 365, ENG 382, 496, IDS 492, STS 257	3	
ARS 494 Topics Art Studies	3	
Advised Elective (Requirement: 000024002) Courses taken for this requirement must be pre-approved by the department. Please contact your advisor about meeting this requirement.	3	
<u>Concentration Courses/Groups/Electives:</u>		
Free Electives: (Requirement: 000024003) (12 Hr S/U Limit) Select any courses except the following: FLA 101, FLC 101, FLF 101, FLG 101, FLI 101, FLJ 101, FLN 101, FLP 101, FLR 101, FLS 101, FLS 105, GRK 101, LAT 101, MA 101, PER 101	27	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	60	

COLLEGE REQUIREMENTS:		
Orientation Course(s):		
<p>Other:</p> <p>History I (Requirement: 000019312) - A 200-level survey course covering a culture significantly different from our own, i.e., pre-industrial or non-Western required. Choose one 3-credit hour course from the College-approved History 1 list. AFS 275, 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p> <p>History II (Requirement: 000019313) - A 200-level survey course covering our own or a similar culture required. Choose one 3-credit hour course from the College-approved History 2 list HI 205, 208, 209, 210, 221, 222, 251, 252, 253, 254</p> <p>Literature I (Requirement: 000019314) - A survey course covering literature outside the U.S. and prior to the 20th century required. Choose one 3-credit hour course from the College-approved Literature 1 list. CLA 210, 320, ENG 219, 220, 221, 222, 251, 255, 261 or 262 (but not both), 361, FL 219, 220, 221, 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 HON 293 Honors Special Topics-Literature</p> <p>Literature II (Requirement: 000019315)- Any course that meets the Literature I requirement, or a course in American or Twentieth Century Literature, or an upper division survey course or literature course in a period, genre, or major figure in English, a foreign language in English translation, or the original foreign language required. Choose one 3-credit hour course from the College-approved Literature list. List A - AFS 248, 349, 448, CLA 210, 320, ENG 207, 208, 209, 219, 220, 221, 222, 223, 224, 232, 233, 246, 248, 249, 251, 252, 261, 262, 265, 266, 267, 275, 305, 339, 340, 341, 342, 349, 361, 362, 369, 370, 372, 376, 377, 380, 382, 385, 390, 392, 393, 394, 398, 399, 406, 407, 410, 420, 439, 448, 449, 451, 452, 452, 460, 462, 463, 464, 465, 466, 468, 469, 470, 476, 486, 487, FL 219, 220, 221, 223, 224, 246, 392, 393, 394, 406, 407, FLN 301, 302, 401, WGS 305 List B - ENG 219, 220, 221, 223, 224, 246, 255, 392, 393, 394, 406, FL 219, 220, 221, 222, 223, 224, 246, 392, 393, 394, 406, 407, FLF 302, 414, 492, FLG 320, 323, 325, FLJ 342, 344, 345, FLN 301, 302, 401, FLR 303, 304, FLS 340, 341, 342, 343, 351, 352, 353, 492, HON 202, HON 293 Honors Special Topics-Literature</p> <p>Foreign Language 201 (Requirement: 000019319) FLA 201, FLC 201, FLF 201, FLG 201, FLI 201, FLJ 201, FLN 201, FLP 201, FLR 201, FLS 201, 212, GRK 201, LAT 201, or PER 201</p> <p>Philosophy (Requirement: 00019316) - Any PHI course on the approved GEP-Humanities list</p> <p>Arts and Letters (Requirement: 000019317) – Choose one three credit hour course from the College approved Arts and Letters list.</p>	<p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p>	<p>Humanities (3)</p> <p>Humanities (3)</p>

<p>ADN 111, 112, 202, 212, 219, 272, 273, 281, 311, 384, 386, 414, AFS 230, 260, 375, ARC 140, 141, ARS 251, 252, 259, 306, 351, 353, 354, CLA 210, COM 321, 364, 374, 411, D 231, DAN 272, 295, ENG 282, 321, 364, 374, 375, 411, 492, FL 216, FLF 318, FLG 318, FLS 360, GD 203, 303, HA 201, 202, 203, 240, 298, 395, 401, 404, 410, 498, HI 240, 320, 402, 407, 408, IDS 496, LAR 444, MUS 180, 181, 200, 201, 202, 205, 206, 230, 260, 306, 310, 315, 320, 330, 350, 360, REL 200, 210, 230, 298, 309, 311, 312, 314, 317, 320, 323, 327, 331, 332, 333, 334, 340, 350, 383, 402, 408, 412, 413, 423, 471, 472, 473, 482, 489, 491, 496, 498, SOC 309, STS 471, THE 103, 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p> <p>Social Science (Requirements: 000023996 & 000019365) <i>(Choose three different disciplines)</i></p> <p>Anthropology: ANT 251, 252, 253, 254, 261, 295, 310, 315, 325, 330, 345, 346, 351, 354, 370, 371, 374, 389, 395, 411, 412, 416, 419, 421, 422, 424, 427, 428, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, 501, 529, 585, 587, HI 587, SOC 261, WGS 444</p> <p>Agricultural Economics: ARE 201, 201A, 215, 260, 301, 303, 304, 306, 309, 311, 312, 321, 323, 332, 336, 345, 404, 412, 413, 420, 425, 433, 444, 490, 492, 493, 494, 495, EC 301, 336, 436</p> <p>Economics: ARE 301, 336, EC 201, 202, 205, 301, 302, 305, 336, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 474, 480, 490, 491, 495, 498</p> <p>Political Science: AFS 409, LPS 315, PS 101, 102, 103, 201, 202, 203, 204, 231, 236, 241, 298, 301, 302, 303, 305, 306, 307, 308, 309, 310, 312, 313, 314, 320, 331, 335, 336, 339, 341, 342, 343, 345, 361, 362, 371, 391, 398, 401, 409, 411, 415, 418, 431, 432, 433, 437, 443, 445, 462, 463, 471, 490, 492, 498, 502, 506, 507, 530, 531, 532, 534, 536, 539, 540, 541, 542, 571, 585, SOC 413, 432, WGS 306, 418</p> <p>Psychology: AFS 345, EDP 304, 476, 582, PSY 200, 230, 240, 241, 242, 243, 307, 311, 312, 313, 340, 345, 360, 370, 376, 400, 406, 410, 411, 416, 420, 425, 430, 431, 436, 470, 475, 491, 495, 498, 499, 502, 504, 508, 510, 511, 541, 553, 558, 758, WGS 406</p> <p>Sociology: AFS 305, ANT 261, 428, GEO 220, PS 432, REL 309, SOC 202, 203, 203A, 204, 205, 206, 207, 220, 241, 241A, 261, 295, 300, 301, 304, 305, 306, 309, 311, 342, 350, 351, 381, 395, 400, 401, 402, 404, 405, 407, 410, 413, 414, 418, 425, 427, 428, 429, 430, 432, 440, 445, 450, 457, 465, 492, 493, 495, 498, 508, 509, 514, 533, 591, WGS 204, 304, 407</p> <p>Multidisciplinary: ENG 210, GEO 220, SOC 220, STS 402</p>	<p>12</p>	<p>Social Science (6)</p>
<p>Total credit hours under College Requirements:</p>	<p>33</p>	

<p><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></p> <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>		<p>At least one of the following must be listed:</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.
<p>General Education Program Requirements: <i>Minimum 39-40 hrs</i></p>	<p>Credit hours</p>	<p>How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above) <i>(Choose statement 1, 2 or 3)</i></p>
<p>Mathematical Sciences <i>(6 credits)</i> <i>(At least 1 course with MA or ST prefix)</i> <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></p>	<p>6</p>	<p>Choose course(s) from the University Approved GEP course list for this category.</p>
<p>Natural Sciences <i>(7 credits)</i></p>	<p>7</p>	<p><i>(Choose statement 1, 2 or 3)</i></p>

(At least 1 lab course or course with a lab) 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.		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) 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.	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
Social Sciences (6 credits) (Courses from two different disciplines) 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.	X	(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) 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.	3	(Choose statement 5 or 6) Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
Interdisciplinary Perspectives (5 credits) 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.	5	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
Health and Exercise Studies (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	27	
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	(Choose statement 1 or 4)
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4)
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)		Satisfied by College/Program Requirements
Technology Fluency		Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

SIGNATURE PAGE

CURRICULUM ACTION FOR 16ARTSTBA; ALL SUB PLANS

RECOMMENDED BY:

R Waszczak II

HEAD, DEPARTMENT/PROGRAM

3/15/18

DATE

ENDORSED BY:

David P. K.

CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE

11/7/18

DATE

Dean David

COLLEGE DEAN

11/5/18

DATE

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE

DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION

DATE

DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA)

DATE

APPROVED EFFECTIVE DATE _____

Curriculum Action Memorandum

To: Dr. Mike Mullen
Vice Chancellor and Dean of the Division of Academic and Student Affairs

From: Dr. Helen T. Kraus *Helen Kraus*
Undergraduate Program Coordinator, Department of Horticultural Science

Date: August 24, 2018

Re: Revision to the Science Horticulture Concentration of the B.S. in
Horticultural Sciences (title change and curriculum requirement changes)

Current Title: Science Horticulture

Current SIS code: 11HORTSH 097

Current CIP code: 01.1103

Proposed Effective Date: January 1, 2019

Proposed new title: Plant Breeding and Biotechnology in Horticulture

Proposed new SIS subplan code: 11HSBBH

Title change impact on the classification of the program (CIP code): none

The Department of Horticultural Science proposes to make the following changes to the Science concentration of the Bachelor of Science in Horticultural Science. The new title better reflects the curriculum changes and the inclusion of a both a focus on plant breeding and biotechnology. Additionally, the new curriculum complies with the UNC Policy 400.1.5 by requiring 120 credit hours for completion.

One change to this concentration is the inclusion of the requirement of a business elective. This change is needed as horticulture scientists are required/desire to be able to manage business operations.

Another change is the renaming of the specialization electives to Advised Electives. This change is so that we have common terminology across our three concentrations. Within the Advised Electives we have created Broad-Scope, Breeding, and Biotechnology Electives so that student can more easily identify a pathway of courses to take.

The current and proposed Format A and Format B documents are included with changes indicated in red.

Impacts of changes on other programs or departments (consultations below):

- Agriculture and Life Sciences (**Correcting the name** of ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences and ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences)
- Mathematics (**Drop MA 107 Precalculus**. Students coming into this concentration have most often take Precalculus in high school and place into Calculus 121, 131)
- Statistics (**Add ST 311 Introduction to Statistics** – additional Math requirement to curriculum)
- Plant and Microbial Biology (**Add AEE/ANS/PB 208 Agricultural Biotechnology Issues and Implications** to Foundation Electives (required). This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge. **Add PB 400 Plant Diversity and Evolution, PB 403 Systematic Botany** to Foundation Electives. Students will choose one of these two courses as a foundation course. **Also add PB 400 Plant Diversity and Evolution, PB 413 Plant Anatomy, and PB 414 Cell Biology** to Broad-Scope Electives under Advised Electives.)
- Chemistry (**Drop CH 201 Chemistry-A Quantitative Science and CH 202 Quantitative Chemistry Laboratory**. Students that want to take BCH 451 and BCH 453 will need to take CH 201/202 as an elective. Advisors will recommend they use free electives for this course.)
- Communication (**Add COM 202 Small Group Communication** – additional Writing Speaking Elective option to curriculum. **Add COM 289 Science Communication and Public Engagement**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge.)
- Biotechnology (**Add BIT 100 Current Issues in Biotechnology**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge. **Add BIT 402 Biotechnology Networking and Professional Development** to Broad-Scope Electives; **BIT 467 PCR and DNA Fingerprinting, BIT 468 Genome Mapping, and BIT 476 Applied Bioinformatics to Breeding Electives; and BIT 410 Manipulation of Recombinant DNA, BIT 462 Gene Expression Analysis: Microarrays, BIT 471 RNA Interference and Model Organisms, and BIT 474 Plant Genetic Engineering** to Biotechnology Electives in Advised Electives.)
- Economics (**Add EC 205 Fundamental of Economics** – additional Social Science option to curriculum).
- Crop Science (**Add CS 224 Seed, Biotechnology & Society**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge. **Add CS 413 Plant Breeding** to Foundation Electives. **Add CS 411 Crop Ecology** to Broad-Scope Electives in Advised Electives.)
- Accounting (**Add ACC 210 Concepts of Financial Reporting and ACC 220 Introduction to Managerial Accounting** to the Business Electives.)

- Agricultural Resource Economics (Add ARE 215 Small Business Accounting, ARE 306 Agricultural Law, ARE 309 Environmental Law and Economic Policy, ARE 311 Agricultural Markets, ARE 312 Agribusiness Marketing, and ARE 332 Human Resource management for Agribusiness to Business Electives.)
- Management, Innovation, Entrepreneurship (Adding MIE 310 Introduction to Entrepreneurship, and MIE 413 New Venture Planning to list of Business Electives)
- Horticultural Science (Add HS 492 Horticulture Internship or HS 493 Research Experience in Horticultural Science or HS 494 Teaching Experience in Horticultural Science to required courses. Add HS 451 Plant Nutrition, HS 491 Sustainable Agriculture Entrepreneurship Study Abroad, and HS 476 Crop Physiology and Production in Controlled Environments to Broad-Scope Electives under Advised Electives.
- Genetics (Add GN 423 Population, Quantitative and Evolutionary Genetics, GN 425 Advanced Genetics Laboratory, GN 427 Introductory Bioinformatics, GN 451 Genome Science, and GN 461 Advanced Bioinformatics to Breeding Electives under Advised Electives.
- Biochemistry (Add BCH 453 Biochemistry of Gene Expression to Breeding Electives under Advised Electives).
- Food Science (Add FS 402 Chemistry of Food and Bioprocessed Materials to Biotechnology Electives in Advised Electives.

Impact on current students in the program: No impact. Students currently enrolled under old concentration title will remain under that concentration title and requirements.

Consultations from other departments:

Genetics: I have reviewed your proposed curriculum action request and noted that you have added several Genetics classes to the electives list. These changes are acceptable to the Genetics Undergraduate Program. Please note that we are not currently offering the Advanced Bioinformatics class (GN 461), although we hope to do so in the future. The GN 425 Advanced Genetics Laboratory is currently restricted to GN majors, but your students will be welcome if there are seats available. I just wanted to make you and your students aware of this for their planning purposes.

Mathematics: Math agrees with your proposed curriculum changes. Good luck!

Statistics: We're okay with this in Statistics.

Plant and Microbial Biology: CH 201/202 is a prerequisite for BCH 451. It is not a listed prerequisite in the MyPack for BCH 351 but is for BCH 451. – Advisors will help students choose CH 201/202 if the student wants to take BCH 451.

I am having a little difficulty understanding how PB 400 fits as an option alongside HS 304 and PB 403. If the intent is for students to learn identification skills, PB 400 may not be a good choice. That course primarily deals with evolved characteristics and patterns at the Order level

and higher (whereas PB 403 is primarily gauged at the Order level and lower). Can this grouping be explained? = Based on your description, PB 400 does not sound appropriate. I have removed it. I am leaving PB 403 because that is appropriate. The HS 303, 304, and PB 403 grouping is for plant breeders that want to focus more on ornamental plants or edible plants.

PB 414 should probably be listed as BIO/PB 414 since we alternate offerings of that course with Biological Sciences. - Done

Finally, while it is clear how the PBB concentration suffix was derived, that's awfully close to PB. I am concerned that this will generate confusion about our programs, especially given that multiple PB courses are elements of this concentration. I respectfully request that it be changed. = I agree. We will go with HSPBB.

Communications: The addition of COM 202 Small Groups to your curriculum works well for the Dept of Communication. So, the changes to your curriculum should not be a problem for us with our students trying to enroll in COM 202. Also - So far and even though the course has only been offered a couple of times, the student enrollments have not been great. I think we're still in the early stages, trying as best we can to get the word out about this new class. So we would welcome your students, because we need the enrollments and more importantly because they would bring interesting insights and experiences and undoubtedly at least some of them could put the knowledge gained in Com 289 to good use when they graduate.

Biotechnology: BIT 410 is taught every semester, including summer; BIT 402 is taught every Spring at the moment

BIT 467 will be taught in Spring 2019, but then the course will take a break until it may be revised and/or updated. This is typical with all of our 2 credit advanced laboratory module courses, in that we try to offer laboratory classes in the most current and cutting edge techniques. We start our newest classes as BIT 495 Special Topics classes, and then if there is faculty and student interest in continuing that class beyond a few terms, we request a permanent course number from the University Curriculum Committee. We keep many of our courses in the catalog with descriptions, because we bring them back and update them. For example, BIT 473-Protein Interactions was offered in the past, and then was not offered for a number of years, until recently. There is a lot of interest in BIT 474, and we are in the process of trying to get that class updated and on the schedule again in the near future. The current courses we offer are always on our website, where you can see the courses that have been offered going back a few years. We cannot guarantee that any particular modules will be available that fulfill any specific major electives, nor can we guarantee a seat for those students if that is the last class they are wanting before graduation, as seats fill pretty quickly once enrollment opens. Here is a direct link to the courses: <http://biotech.ncsu.edu/courses>

In response to these comments, we listed every acceptable BIT course as Advised Electives. Students can choose between what is offered or the UTC can make a substitution for a new BIT course offered.

Poole College of Management: Poole is comfortable with the proposal based on communication with horticulture regarding limited availability of seats, especially during the fall and spring semesters, and the very real likelihood that availability may be limited primarily to summer enrollment.

Crop and Soil Sciences: Looks good.

Agriculture & Resource Economics: It is fine with ARE if you include **ARE 215, ARE 306, ARE 309, ARE 311, ARE 312, ARE 321, ARE 332.**

Food Science: I do not see issues with adding FS402 to potential electives for Horticultural Sciences other than limited class/lab sizes.

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY

Effective Semester: 7/2009

DEGREE TITLE: Bachelor of Science in Horticultural Science

CONCENTRATION TITLE: Science Horticulture

CURRENT DEGREE KEY: 11 SH 097

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Introductory Topics in ALS	1	BIO 183 Intro Biology: Cellular & Molecular Bio	4
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	CH 101 Chemistry-A Molecular Science	3
ENG 101 Academic Writing and Research	4	CH 102 General Chemistry Laboratory	1
HS 201 Principles of Horticulture	3	HS 290 Perspectives in Horticultural Science	1
MA 107 Precalculus I	3	MA 121 Elements of Calculus <i>or</i>	3
PE 10x Fitness and Wellness*	1	MA 131 Calculus for Life & Management Sci A	3
		COM 110 Public Speaking <i>or</i>	
		COM 112 Interpersonal Communication	
	<i>Total: 16</i>		<i>Total 15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 201 Chemistry-A Quantitative Science	3	CH 221 Organic Chemistry I	3
CH 202 Quantitative Chemistry Laboratory	1	CH 222 Organic Chemistry I Laboratory	1
Departmental Elective ¹	3	GEP Social Science Requirement*	3
Free Elective ¹	3	Physical Education/Healthy Living*	1
ARE 201 Intro to Agricultural & Res Econ <i>or</i>	3	PY 212 College Physics II	4
EC 201 Principles of Microeconomics		SSC 220 Soil Science	4
PY 211 College Physics I	4		
	<i>Total:17</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 Organic Chemistry II	3	Free Elective	3
CH 224 Organic Chemistry II Laboratory	1	GEP Humanities Requirement*	3
GEP Humanities Requirement*	3	PB 421 Plant Physiology	3
Plant Protection Elective ¹	3	PB 422 Plant Physiology Laboratory	1
Specialization Elective ¹	3	Plant Protection Elective ¹	3
		Specialization Elective ¹	3
	<i>Total:13</i>		<i>Total:16</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Departmental Elective ¹	3	BCH 451 Principles of Biochemistry	4
Free Elective	3	Departmental Elective ¹	3
GEP Additional Breadth Requirement *	3	GEP Interdisciplinary Perspectives Requirement*	5-6
GN 311 Principles of Genetics	4	Specialization Elective ¹	3
GN 412 Elementary Genetics Laboratory	1		
Specialization Elective ¹	3		
	<i>Total:17</i>		<i>Total:15-16</i>
Minimum Credit Hours Required for Graduation*: 125			

Major/Program Footnotes (SH):

¹ Students must choose a minimum of 6 hours from the Plant Protection Electives column, 12 hours from the Specialization Electives column, and an additional 9 hours of Departmental Electives column. The 9 hours of Departmental Electives can be selected from any course in either column below not already taken as a Plant Protection or Specialization requirement. Departmental Electives can also include any HS 495 Special Topics in Horticultural Science or any 500-level HS course as well as up to 6 hours (combined) of HS 492 External Learning Experience and HS 493 Special Problems in Horticultural Science. All students are strongly encouraged to participate in a learning experience as part of their undergraduate course work.

Plant Protection Electives

(6 hours minimum)

CS 414 Weed Science (4,F)
CS 415 Integrated Pest Management (3,F)
ENT 425 General Entomology (3,F,SU)
PP 315 Principles of Plant Pathology (4,F) *or*
PP 318 Forest Pathology (3,S)

Departmental Electives

(9 hours minimum)

Specialization Electives

(12 hours minimum)

HS 211 Ornamental Plants I (3,F)
HS 212 Ornamental Plants II (3,S)
HS 301 Plant Propagation (4,F)
HS 302 Gardening with Herbaceous Perennials (3,S,odd)
HS 342 Landscape Horticulture (3,F,S)
HS 371 Interior Plantscapes (3,S,alt odd)
HS 411 Nursery Management (3,F)
HS 421 Physiology and Culture of Temperate-Zone Tree Fruits (3,S,alt odd)
HS 422 Small Fruit Production (3,S,alt even)
HS 431 Vegetable Production (4,F)
HS 440 Greenhouse Management (3,F)
HS 442 Production of Floricultural Crops (3,S)
HS 451 Plant Nutrition (3,S,alt even)
HS 462 Postharvest Physiology (3,S)
HS 471 Tree and Grounds Management (4,S)

*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>.

*Courses/groupings in the above display with an asterisk may fulfill all or part of a GEP requirement. See categories below.

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 107, MA 121 or MA 131**

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, CH 201, CH 202**

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**

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 201 or EC 201**

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: **None**

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: **None**

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**

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

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY
Effective Semester: 1/2019

DEGREE TITLE: **Bachelor of Science in Horticultural Science**

CONCENTRATION TITLE: **Plant Breeding & Biotechnology in Horticulture**

CURRENT DEGREE KEY: **11HSBBH**

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences <i>or</i> ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences	1	BIO 183 Intro Biology: Cellular & Molecular Bio CH 101 Chemistry-A Molecular Science CH 102 General Chemistry Laboratory COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication ST 311 Introduction to Statistics	4 3 1 3 3
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4		
ENG 101 Academic Writing and Research	4		
HS 201 World of Horticulture	3		
HS 290 Horticulture: Careers & Opportunities	1		
MA 107 Precalculus-I	3		
MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci A	3		
	<i>Total: 16</i>		<i>Total 14</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics CH 201 Chemistry-A Quantitative Science CH 202 Quantitative Chemistry Laboratory	3	Advised Elective CH 223 Organic Chemistry II CH 224 Organic Chemistry II Laboratory BIT 100 Current Issues in Biotechnology (F) <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> COM 289 Science Communication and Public Engagement (Sum) <i>or</i> CS 224 Seeds, Biotechnology and Societies	3 3 1 3
CH 221 Organic Chemistry I	3	COM 289 Science Communication and Public Engagement (Sum) <i>or</i> CS 224 Seeds, Biotechnology and Societies	
CH 222 Organic Chemistry I Laboratory	1		
HS 303 Plant ID I	3	HS 304 Plant ID II <i>or</i> PB 403 Systematic Botany	3
SSC 200 Soil Science	3	Physical Education/Healthy Living	1
SSC 201 Soil Science Lab	1		
	<i>Total: 14</i>		<i>Total: 14</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	3	Advised Elective ¹	3
BCH 351 General Biochemistry <i>or</i> BCH 451 Principles of Biochemistry	4	Free Elective GEP Humanities Requirement	3 3
HS 301 Plant Propagation	4	GEP Interdisciplinary Perspectives Requirement	2
HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science	3	GN 311 Principles of Genetics GN 312 Elementary Genetics Laboratory	4 1
Plant Protection Elective ¹	3		
	<i>Total: 17</i>		<i>Total: 16</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CS 413 Plant Breeding	2	Advised Elective Business Elective	3 3
GEP Additional Breadth Requirement*	3	Free Elective	3
PB 421 Plant Physiology	3	GEP Humanities Requirement*	1
PB 480 Intro to Plant Biotech	3	Physical Education/Healthy Living*	2
GEP Social Science Requirement	3	Plant Protection Elective ¹	3
	<i>Total: 14</i>		<i>Total: 15</i>
Minimum Credit Hours Required for Graduation*: 120			

Major/Program Footnotes:

¹ Students must choose a minimum of 6 credits from Plant Protection Electives, 3 credits from Business Electives, and 12 hours from Advised Electives. Advised Electives can also include any HS 495 Experimental Courses in Horticultural Science or any 500-level HS course.

Plant Protective Electives (6 credits minimum)

CS 414 Weed Science (F)
CS 415 Integrated Pest Management (S)
ENT 425 General Entomology (F)
PP 315 Principles of Plant Pathology (F) *or*
PP 318 Forest Pathology

Business Electives (3 credits minimum)

ACC 280 Survey of Financial and Managerial Accounting
ARE 215 Small Business Accounting
ARE 306 Agricultural Law
ARE 309 Environmental Law and Economic Policy
ARE 311 Agricultural Markets (F)
ARE 312 Agribusiness Marketing
ARE 332 Human Resource Management for Agribusiness
HS 475 Horticulture Entrepreneurship (S, alt. odd)
MIE 310 Introduction to Entrepreneurship
MIE 413 New Venture Planning

Advised Electives

(12 credits minimum; At least 3 credits from Broad-Scope; Remaining 9 can be from Broad-Scope, Breeding, or Biotechnology Electives)

Broad-Scope Electives

BIT 402 Biotechnology Networking and Professional Development
CS 411 Crop Ecology
HS 451 Plant Nutrition
HS 462 Post Harvest Physiology
HS 476 Crop Physiology and Production in Indoor Environments
HS 491 Sustainable Agriculture Entrepreneurship Study Abroad
PB 413 Plant Anatomy (S)
PB 414 Cell Biology (S)

Breeding Electives

BCH 453 Biochemistry of Gene Expression
BIT 467 PCR and DNA Fingerprinting (S)
BIT 468 Genome Mapping (S)
BIT 476 Applied Bioinformatics (F)
GN 423 Population, Quantitative and Evolutionary Genetics (S)
GN 425 Advanced Genetics Laboratory
GN 427 Introductory Bioinformatics (F)
GN 451 Genome Science (S)
GN 461 Advanced Bioinformatics (S)

Biotechnology Electives

BIT 410 Manipulation of Recombinant DNA
BIT 462 Gene Expression Analysis: Microarrays (F)
BIT 471 RNA Interference and Model Organisms (S)
BIT 474 Plant Genetic Engineering (F)
FS 402 Chemistry of Food and Bioprocessed Materials (F)
GN 421 Molecular Genetics

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 <https://oucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements/>. See categories below.

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

The following courses completed as part of the Major requirements fulfill all of this requirement: MA 121 or MA 114 or MA 131 and ST 311

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

The following courses completed as part of the Major requirements fulfill all of this requirement: BIO 181, BIO 183, CH 101, CH 102, HS 201

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

Choose from the University approved GEP Humanities course list.

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

Choose from the University approved GEP Social Sciences course list. The following course if completed as part of the Major requirements fulfill part of this requirement: ARE 201 or EC 201 or EC 205

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 Humanities/Social Sciences/Visual and Performing Arts)

Interdisciplinary Perspectives (2 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following course if completed as part of the Major requirements fulfill part of this requirement: AEE/ANS/PB 208 or BIT 100 or COM 289 or CS 224

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)

The following course if completed as part of the Major requirements fulfill this requirement: ALS 103 or 303

Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list.

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

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> Horticulture	<u>Plan SIS Code:</u> 11HORTB5
<u>Concentration/Subplan Title:</u> Science Horticulture	<u>Subplan SIS Code:</u> 11HORTSH
<u>Indicate requirements status:</u> Current: X Proposed:	<u>Proposed Effective Semester:</u> 8/2015
<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:	Credit Hours	GEP category, if applicable
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
HS 201 The World of Horticulture: Prin & Prac	3 (CP)	Natural Science
HS 290 Horticulture: Careers & Opportunities	1	
SSC 200 Soil Science	4	
SSC 201 Soil Science Lab	1	
PB 421 Plant Physiology	3	
BCH 351 General Biochemistry or BCH 451 Principles of Biochemistry	4	
GN 311 Principles of Genetics	4	
GN 312 Elementary Genetics Laboratory	1	Natural Science
PB 480 Intro to Plant Biotech	3	
MA 107 Precalculus I	3	
MA 114 Intro to Finite Math with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci	3	
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	Mathematical Sciences
BIO 183 Intro Biology: Cellular & Molecular Bio	4	
CH 101 Chemistry-A Molecular Science	3	Mathematical Sciences
CH 102 General Chemistry Laboratory	1	
CH 201 Chemistry –A Quantitative Science	3	Natural Sciences
CH 202 Quantitative Chemistry Laboratory	1	Natural Sciences
CH 221 Organic Chemistry I	3	Natural Science
CH 222 Organic Chemistry I Laboratory	1	
CH 223 Organic Chemistry II	3	Natural Science
CH 224 Organic Chemistry II Laboratory	1	
PY 211 College Physics or PY 131 Conceptual Physics	3	
COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication	3	Natural Science
ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics	3	
		Social Science Requirement
		Social Science Requirement
Concentration Courses/Groups/Electives:		
Plant Protection Elective	6	
Departmental	9	
Specialization	12	

Free Electives: Free Elective	11	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	101	
COLLEGE REQUIREMENTS:		
Orientation Course(s): ALS 103 Introductory Topics in ALS	1	Diversity
Other:		
Total credit hours under College Requirements:	1	

<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 may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i>		<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 X 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. 	
Specific courses should not be listed in any of the fields below other than ENG 101.			
General Education Program Requirements: <i>Minimum 39-40 hrs</i>	<i>Credit hours</i>	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)	
Mathematical Sciences (6 credits)	0	(Choose statement 1, 2 or 3) 2	
Natural Sciences (7 credits) (At least 1 lab course or course with a lab)	0	(Choose statement 1, 2 or 3) 2	
English 101 (C- or better required) (4 credits)	4	ENG 101	
Humanities (6 credits) GEP Humanities Requirement	6	(Choose statement 1, 2 or 3) 1	
Social Sciences (6 credits) GEP Social Science Requirement	3	(Choose statement 1, 2 or 3) 3	
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) 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.	3	(Choose statement 5 or 6) 5	
Interdisciplinary Perspectives (5 credits) 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.	5	(Choose statement 1, 2 or 3) 1	
Health and Exercise Studies (2 credits) PE 10x Fitness and Wellness Physical Education/Healthy Living	2	Choose course(s) from the University Approved GEP course list for this category.	
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	23		

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	(Choose statement 1 or 4) 1
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) 1
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		Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	125	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> Horticulture	<u>Plan SIS Code:</u> 11HORTBS
<u>Concentration/Subplan Title:</u> Plant Breeding & Biotechnology in Horticulture <u>Subplan SIS Code:</u> 11HSBBH	
<u>Indicate requirements status:</u> Current: X Proposed:	<u>Proposed Effective Semester:</u> 1/2019
<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
<u>Math</u> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci ST 311 Introduction to Statistics	3 3	Mathematical Sciences Mathematical Sciences
<u>Sciences</u> BIO 181 Intro Biology: Ecol, Evol, Biodiversity BIO 183 Intro Biology: Cellular & Molecular Bio CH 101 Chemistry-A Molecular Science CH 102 General Chemistry Laboratory CH 221 Organic Chemistry I CH 222 Organic Chemistry I Laboratory CH 223 Organic Chemistry II CH 234 Organic Chemistry II Lab	4 4 3 1 3 1 3 1	Natural Sciences Natural Sciences Natural Sciences
<u>Writing and Speaking Elective</u> COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication	3	Communication in the Major
<u>Social Sciences</u> ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics	3	Social Science Requirement
<u>Foundation Electives (all required)</u> BCH 351 General Biochemistry <i>or</i> BCH 451 Principles of Biochemistry CS 413 Plant Breeding GN 311 Principles of Genetics (CP) GN 312 Elementary Genetics Laboratory HS 201 The World of Horticulture: Prin & Prac (CP) HS 290 Horticulture: Careers & Opportunities HS 301 Plant Propagation HS 303 Plant ID I <i>and</i> HS 304 Plant ID II <i>or</i> PB 403 Systematic Botany PB 421 Plant Physiology	4 2 4 1 3 1 4 3 3	Natural Science

<p>PB 480 Introduction to Plant Biotechnology SSC 200 Soil Science SSC 201 Soil Science Lab BIT 100 Current Topics in Biotechnology <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> COM 289 Science Communication and Public Engagement <i>or</i> CS 224 Seeds, Biotechnology, and Societies (also GK)</p>	<p>3 3 3 1 3</p>	<p>Interdisciplinary Perspectives & Global Knowledge</p>
<p>Students must take one of the following: (may receive up to 6 credits) HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science</p>	<p>3</p>	
<p><u>Plant Protective Electives (6 credits minimum)</u> CS 414 Weed Science CS 415 Integrated Pest Management ENT 425 General Entomology PP 315 Principles of Plant Pathology <i>or</i> PP 318 Forest Pathology</p>	<p>6</p>	
<p><u>Business Electives (3 credits minimum)</u> ACC 280 Survey of Financial and Managerial Accounting ARE 215 Small Business Accounting ARE 306 Agricultural Law ARE 309 Environmental Law and Economic Policy ARE 311 Agricultural Markets ARE 312 Agribusiness Marketing ARE 332 Human Resource Management for Agribusiness HS 475 Horticulture Entrepreneurship MIE 310 Introduction to Entrepreneurship MIE 413 New Venture Planning</p>	<p>3</p>	
<p><u>Advised electives</u> (12 credits minimum; At least 3 credits from Broad-Scope; Remaining 9 credits from can be from Broad-Scope or Biotechnology Electives)</p>		
<p><i>Broad-Scope Electives</i> BIT 402 Biotechnology Networking and Professional Development CS 411 Crop Ecology HS 491 Study Abroad HS 451 Plant Nutrition HS 462 Post Harvest Physiology HS 476 Crop Physiology and Production in Indoor Environments PB 413 Plant Anatomy BIO/PB 414 Cell Biology</p>		
<p><i>Breeding Electives</i> BCH 453 Biochemistry of Gene Expression BIT 467 PCR and DNA Fingerprinting BIT 468 Genome Mapping BIT 476 Applied Bioinformatics GN 423 Population, Quantitative and Evolutionary Genetics GN 425 Advanced Genetics Laboratory GN 427 Introductory Bioinformatics GN 451 Genome Science</p>		

<p>GN 461 Advanced Bioinformatics</p> <p><i>Biotechnology Electives</i></p> <p>BIT 410 Manipulation of Recombinant DNA BIT 462 Gene Expression Analysis: Microarrays BIT 471 RNA Interference and Model Organisms BIT 474 Plant Genetic Engineering FS 402 Chemistry of Food and Bioprocessed Materials GN 421 Molecular Genetics</p>		
<p>Concentration Courses/Groups/Electives:</p> <p>Plant Protection Elective Business Advised</p>	<p>6 3 12</p>	
<p>Free Electives:</p> <p>Free Elective</p>	<p>5</p>	
<p>Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i></p>	<p>99</p>	
COLLEGE REQUIREMENTS:		
<p>Orientation Course(s):</p> <p>ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences or ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences</p>	<p>1</p>	<p>Diversity</p>
<p>Other:</p>		
<p>Total credit hours under College Requirements:</p>	<p>1</p>	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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"> 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)	0	(Choose statement 1, 2 or 3) 2	
Natural Sciences (7 credits) (At least 1 lab course or course with a lab)	0	(Choose statement 1, 2 or 3) 2	
English 101 (c- or better required) (4 credits)	4	ENG 101	
Humanities (6 credits) GEP Humanities Requirement	6	(Choose statement 1, 2 or 3) 1	
Social Sciences (6 credits) GEP Social Science Requirement	3	(Choose statement 1, 2 or 3) 3	
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) 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.	3	(Choose statement 5 or 6) 5	
Interdisciplinary Perspectives (5 credits) 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.	2	(Choose statement 1, 2 or 3) 1	
Health and Exercise Studies (2 credits) PE 10x Fitness and Wellness Physical Education/Healthy Living	2	Choose course(s) from the University Approved GEP course list for this category.	
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	20		
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	(Choose statement 1 or 4) 1	
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) 2	
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		Satisfied by College/Program Requirements	
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120	As applicable, indicate here the overall GPA requirement for degree completion including course completion.	

SIGNATURE PAGE

COURSE ACTION FOR CURRICULUM CHANGES FOR GENERAL CONCENTRATION OF
HORTICULTURAL SCIENCE BS DEGREE

RECOMMENDED BY:



HEAD, DEPARTMENT/PROGRAM

Aug 20/2018

DATE

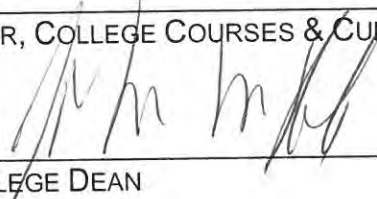
ENDORSED BY:



CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE

8/31/18

DATE



COLLEGE DEAN

a/s/18

DATE

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE

DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION

DATE

DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA)

DATE

APPROVED EFFECTIVE DATE



College of Agriculture and Life Sciences
Department of Horticultural Science

http://cals.ncsu.edu/hort_sci/

Campus Box 7609
2721 Founders Drive
Raleigh, NC 27695-7609
P: 919.515.3131

Curriculum Action Memorandum

To: Dr. Mike Mullen
Vice Chancellor and Dean of the Division of Academic and Student Affairs

From: Dr. Helen T. Kraus. *Helen Kraus*
Undergraduate Program Coordinator, Department of Horticultural Science

Date: August 24, 2018

Re: Revision to the Technology, General Horticulture Concentration of the B.S. in
Horticultural Sciences (title change and curriculum requirement changes)

Current Title: Technology, General Horticulture

Current SIS code: 11HORTTHG 097

Current CIP code: 01.1103

Proposed Effective Date: January 1, 2019

Proposed new title: Production Systems and Entrepreneurship in Horticulture

Proposed new SIS subplan code: 11HSPSE

Title change impact on the classification of the program (CIP code): none

The Department of Horticultural Science proposes to make the following changes to the Technology, General Horticulture concentration of the Bachelor of Science in Horticultural Science. The new title better reflects the curriculum changes and the inclusion of a heavier focus on entrepreneurship. Additionally, the new curriculum complies with the UNC Policy 400.1.5 by requiring 120 credit hours for completion.

One change to this concentration is the inclusion of more business electives and the subdividing of these business electives into Entrepreneurship Electives and Management Electives.

Another change is the renaming of the specialization electives to Advised Electives. This change is so that we have common terminology across our three concentrations. Within the Advised Electives we have created Broad-Scope, Ornamental Plant, and Edible Plant Electives so that student can more easily identify a pathway of courses to take based on their goals.

The current and proposed Format A and Format B documents are included with changes indicated in red.

Impacts of changes on other programs or departments (consultations below):

- Agriculture and Life Sciences (**Correcting the name** of ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences and ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences)
- Statistics (**Add ST 311 Introduction to Statistics** – additional Math option to curriculum)
- Plant and Microbial Biology (**Add PB 200 Plant Life** – additional Natural Science option to curriculum; **Add PB/AEC 360 Ecology** as a required course; **Add PB 220 Local Flora, PB 215 Medicinal Plants, and PB 325 Culinary Botany** to Advised Electives)
- Chemistry (**Correction of the credit hours** for CH 220. It was 4 credits. It now is 3 cr. **Add CH 222 Organic Chemistry Laboratory** to required courses.)
- Communication (**Add COM 202 Small Group Communication** – additional Writing Speaking Elective option to curriculum)
- Economics (**Add EC 205 Fundamental of Economics** – additional Social Science option to curriculum)
- Crop Science (**Add of CS 224 Seed, Biotechnology & Society**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge. **Adding CS 230 and CS 430 to Advised Electives**)
- Applied Ecology (**Add PB/AEC 360** to required courses); **Add AEC 380 Global Water Resources**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Environmental Sciences (**Add ES 200 Climate Change and Sustainability**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Interdisciplinary Studies (**Add IDS 201 Environmental Ethics**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Accounting (**Dropped ACC 200** from the list of business electives. Students do not take the prerequisite. **Add ACC 280 Survey of Financial and Managerial Accounting** to the Entrepreneurship Electives of the Advised Electives.)
- Agricultural Resource Economics (**Add ARE 332 Human Resource Management** for Agribusiness to Management Electives in Business Electives. **Add ARE 215 Small Business Accounting** to Entrepreneurship Electives in Business Electives)
- Business Management (**Add BUS 370 Operation Management** to list of Entrepreneurship Electives within the Business Electives)
- Management, Innovation, Entrepreneurship (**Adding MIE 201 Introduction to Business Processes, MIE 310 Introduction to Entrepreneurship, and MIE 413 New Venture Planning** to list of Entrepreneurship Electives within the Business Electives)
- Biological and Agricultural Engineering (**Adding BAE 435 Precision Agriculture Technology** to Edible Plant Electives under Advised Electives)
- Food Science (**Add FS 250 Basic Food Safety** to Edible Plant Electives under Advised Electives)
- Horticultural Science (**Add HS 492 Horticulture Internship or HS 493 Research Experience in Horticultural Science or HS 494 Teaching Experience in Horticultural Science** to required courses. **Add HS 451 Plant Nutrition** to required

courses. Add **HS 491 Sustainable Agriculture Entrepreneurship Study Abroad**, **HS 280 Hands-On Horticulture** to Broad-Scope Electives under Advised Electives. New course names for **HS 242 Introduction to Small Scale Landscape Design** and **HS 471 Landscape Ecosystem Management** and the inclusion of these course to Broad-Scope Electives under Advised Electives. Inclusion of **HS 476 Crop Physiology and Production in Controlled Environments** to Edible Plant Electives under Advised Electives

- Entomology (Adding **ENT 203 Introduction to Honey Bee and Beekeeping** and **ENT 401 Honey Bee Biology and Management** to Broad-Scope Electives under Advised Electives

Impact on current students in the program: No impact. Students currently enrolled under old concentration title will remain under that concentration title and requirements

Consultations from other departments:

Applied Ecology: I took a look through these changes and I think all is well, just want to clarify a couple of issues:

1. In previous versions of your curricula you've listed the Ecology course that we (Applied Ecology) split with PMB as 'AEC/PB 360' and you appear to allow either, meaning students could take the course in spring (AEC) or fall (PB). In new versions it appears to be listed only as PB 360 in the fall. Does that imply that your students will all be steered to the PB version rather than the AEC version? And if so, what impact (rough estimate) should we expect on our enrollment?

My response to his is that we have always just listed PB 360 in our concentrations. By including AEC 360 it allows the students the option of taking this course in the Spring as well. This should be a slight positive increase in AEC 360 enrollments but I would only expect 10 more students per year at best. We show the ecology course in the fall because that is when it fits in their schedule best.

2. AEC 380, Global Water Resources, is my course. Before becoming DH, I offered it every summer. I still love to teach and hope to get back to offering it, but summer will no longer be an option, which means I have to determine a way to free enough time to teach it during spring or fall. I hope that happens but can't promise anything at this point. I do appreciate the support for the course and would love to have your students if I can get it going again - the best thing about this class, in my view, is that it has drawn students from across campus, which has allowed for really interesting trans-disciplinary conversations.

Organic Chemistry: Previously, your students were taking CH 220 when it was a 4 cr course, is this correct? (yes) If so, then CH is okay with these changes.

Accounting: The accounting curriculum has been changed to add a new permanent class (ACC 280) to replace the old ACC 200 which was part of your previous curricula. ACC 280 is designed specifically for non-PCOM students and is a hybrid of financial accounting (ACC 210)

and managerial accounting (ACC 220). I would recommend that your students take ACC 280 rather than ACC 210 or ACC 220. We changed and are requiring ACC 280.

Communications: The addition of COM 202 Small Groups to your curriculum works well for the Dept of Communication. So, the changes to your curriculum should not be a problem for us with our students trying to enroll in COM 202.

Bio and Agriculture Engineering: No problem for BAE.

Poole College of Management: Poole is comfortable with the proposal based on communication with horticulture regarding limited availability of seats, especially during the fall and spring semesters, and the very real likelihood that availability may be limited primarily to summer enrollment.

Plant and Microbial Biology: Most of the changes for this particular concentration are acceptable, but I do have a few comments/suggestions and a couple of questions about a few features:

1. While PB 360 is taught in the fall, the course should probably be listed on both formats as AEC/PB 360. – Done
2. Local Flora is not an ornamental plants course, so I am curious about why it appears on an Ornamental Plant Electives list. It does not seem to be related to any of the other courses. Does it really fit there? – Students want/need to learn native plants as well.
3. We suggest adding PB 325 - Culinary Botany to the Edible Plant Electives list. – Done

My question is about the advised elective categories. If students can choose up to 16 hours from any of the lists, why are Ornamental Plant Electives and Edible Plant Electives separated from one another? It seems that having those two categories separated would make sense if students were required to take a certain number of hours from each. – They are separated to show different pathways for students to take if they have a particular interest.

Also, I noticed on Format A that students are slated to take HS 451 and PB 321 in the same semester. I think that's a great combination. PB 321 students have said that having your course and mine during the same semester is beneficial.

Food Science: I do not see issues with adding FS402 to potential electives for Horticultural Sciences other than limited class/lab sizes.

Statistics: We're okay with this in Statistics.

Agriculture & Resource Economics: It is fine with ARE if you include ARE 215 and ARE 332. Please note though that we have 3 agribusiness entrepreneurship courses now that are Special Topics that we plan to make permanent this semester, plus we are adding a 4th entrepreneurship course. Our plans in ARE are to offer a minor in agribusiness entrepreneurship,

which I hope to get approved this semester. I think our agribusiness entrepreneurship courses are a better fit than ARE 215 and ARE 332 for your entrepreneurship concentration. We would like to have some of your majors in our agribusiness entrepreneurship courses. – We will definitely add the ARE entrepreneurship classes once they are approved.

Crop and Soil Sciences: Looks good.

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY

Effective Semester: 1/2019

DEGREE TITLE: **Bachelor of Science in Horticultural Science**

CONCENTRATION TITLE: Horticulture Production Systems and Entrepreneurship

CURRENT DEGREE KEY: **11HPSE**

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Introductory Topics in ALS	1	BIO 183 Intro Biology: Cellular & Molecular Bio	4
HS 290 Horticulture: Careers & Opportunities	1	MA 114 Intro to Finite Math with Applications <i>or</i>	3
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	MA 121 Elements of Calculus <i>or</i>	
ENG 101 Academic Writing and Research	4	MA 131 Calculus for Life and Management Sci A	
HS 201 The World of Horticulture: Prin & Prac	3	GEP Humanities Requirement*	3
MA 107 Precalculus I	3	COM 110 Public Speaking <i>or</i>	3
PE 10x Fitness and Wellness*	1	COM 112 Interpersonal Communication	
	<i>Total: 16</i>		<i>Total 14</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ANS/HS 215 Basic Agricultural Genetics (F) <i>or</i>	3	ARE 201 Intro to Agricultural & Res Economics <i>or</i>	3
CS 211 Plant Genetics (S)		EC 201 Principles of Microeconomics	
CH 101 Chemistry-A Molecular Science	3	CH 220 Introductory to Organic Chemistry	4
CH 102 General Chemistry Laboratory	1	Departmental Elective ¹	3
Foundation Elective ¹	3	Foundation Elective ¹	3
Foundation Elective ¹	3	SSC 200 Soil Science	3
GEP Humanities Requirement*	3	SSC 201 Soil Science Lab	1
	<i>Total: 16</i>		<i>Total: 17</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Free Elective	3	ARE/BUS Elective I ²	3
Foundation Elective ¹	4	PB 321 Introduction to Whole Plant Physiology	3
Departmental Elective ¹	3	GEP Additional Breadth Requirement*	3
GEP Social Science Requirement*	3	Plant Protection Elective ¹	3
Plant Protection Elective ¹	3	Specialization Elective ¹	3
	<i>Total: 16</i>		<i>Total: 15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ARE/BUS Elective II ²	3	Departmental Elective ¹	6
GEP Interdisciplinary Perspectives Requirement *	3	GEP Interdisciplinary Perspectives Requirement*	2-3
Specialization Elective ¹	3	Specialization Elective ¹	3
Specialization Elective ¹	3	Physical Education/Healthy Living*	1
Free Elective	3	Free Elective	4
	<i>Total: 15</i>		<i>Total: 16-17</i>
Minimum Credit Hours Required for Graduation*: 125			

Major/Program Footnotes (THG):

¹ Students must choose a minimum of 13 hours from the Foundations Electives column, 6 hours from the Plant Protection Electives column, 12 hours from the Specialization Electives column, and an additional 12 hours of Departmental Electives. The 12 hours of Departmental Electives can be selected from any course in any column below not already taken as a Foundation, Plant Protection, or Specialization requirement. Departmental Electives can also include any HS 495 Experimental Courses in Horticultural Science or any 500-level HS course as well as up to 6 hours (combined) of HS 492 Horticulture Internship and HS 493 Independent Study in Horticultural Science. All students are strongly encouraged to participate in a learning experience as part of their undergraduate course work.

Foundation Electives

(13 hours minimum)

PB 360 Introduction to Ecology (4,F,SU)
HS 301 Plant Propagation (4,F)
HS 303 Ornamental Plant ID I (3,F)
HS 304 Ornamental Plant ID II (3,S)
HS 451 Plant Nutrition (3,S,alt even)
SSC 341 Soil Fertility and Fertilizers (3,F)
SSC 342 Soil Fertility Laboratory (1,F)
SSC 461 Soil Physical Prop & Plant Growth (3,F)
PY 211 College Physics I (4,F,S,SU)
PY 212 College Physics II (4,F,S,SU)

Plant Protection Electives

(6 hours minimum)

CS 414 Weed Science (4,F)
CS 415 Integrated Pest Management (3,F)
ENT 425 General Entomology (3,F,SU)
PP 315 Principles of Plant Pathology (4,F)
or PP 318 Forest Pathology (3,S)

Departmental Electives

(12 hours minimum)

Specialization Electives

(12 hours minimum)

CS 200 Introduction to Turfgrass Management (4,F)PB
HS 302 Gardening with Herbaceous Perennials (3,S,odd)
HS 305 Indoor Plantscapes: ID & Use (3,S,alt odd)
HS 342 Landscape Horticulture (3,F,S)
HS 411 Nursery Management (3,F)
HS 421 Temp-Zone Tree Fruits: Phys & Cult (3,S,alt odd)
HS 422 Small Fruit Production (3,S,alt even)
HS 431 Vegetable Production (4,F)
HS 440 Greenhouse Management (3,F)
HS 442 Floriculture Crop Production (3,S)
HS 462 Postharvest Physiology (3,S)
HS 471 Tree and Grounds Management (4,S)

² Students are required to take a minimum of 9 hours of course work in Economics and Business, one course in economic principles, one course in management or marketing (ARE/BUS Elective I), and one course from a set of business and economic courses (ARE/BUS Elective II). Students may choose from the following:

Note: 300-level BUS courses are restricted to students in the BUS minor or major.

ARE/BUS Elective I List (Select 1)

ARE 303 Farm Management (3,F,S)
ARE 304 Agribusiness Management (3,S)
ARE 311 Agricultural Markets (3,F)
ARE 312 Agribusiness Marketing (3,S)

ARE/BUS Elective II List (Select 1)

ACC 200 Introduction to Managerial Accounting (3,F,S,SU)
ARE 303 Farm Management (3,F,S)
ARE 304 Agribusiness Management (3,S)
ARE 306 Agricultural Law (3,F,S)
ARE 309 Environmental Law and Economic Policy (3,F,S)
ARE 311 Agricultural Markets (3,F)
ARE 312 Agribusiness Marketing (3,S)
ARE 321 Agricultural Financial Management (3,F)
BUS 320 Financial Management (3,F,S)
BUS 330 Human Resource Management (3,F,S)
BUS 360 Marketing Methods (3,F,S)

***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>.

*Courses/groupings in the above display with an asterisk may fulfill all or part of a GEP requirement. See categories below.

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 107, MA 121 or MA 114 or MA 131**

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, CH 220**

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**

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 201 or EC 201**

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: **None**

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) if completed as part of the Major requirements may fulfill this requirement: **None**

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) if completed as part of the Major requirements may fulfill this requirement: **None**

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

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY

Effective Semester: 1/2019

DEGREE TITLE: **Bachelor of Science in Horticultural Science**

CONCENTRATION TITLE: **Production Systems and Entrepreneurship in Horticulture**

CURRENT DEGREE KEY: 11HSPSE

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences <i>or</i> ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences	1	BIO 183 Intro Biology: Cellular & Molecular Bio <i>or</i> PB 200 Plant Life	4
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication	3
ENG 101 Academic Writing and Research	4	GEP Humanities Requirement ²	3
HS 201 The World of Horticulture: Prin & Prac	3	HESF 1xx Fitness and Wellness	1
HS 290 Horticulture: Careers & Opportunities	1	MA 114 Intro to Finite Math with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management SciA <i>or</i> ST 311 Introduction to Statistics	3
MA 107 Precalculus I	3		
	<i>Total: 16</i>		<i>Total 14</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	3	Advised Elective ¹	3
AEC 380 Global Water Resources <i>or</i> CS 224 Seed, Biotechnology & Society <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> IDS 201 Environmental Ethics	3	ARE 201 Intro to Agricultural & Res Economics <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics	3
ANS/HS 215 Basic Agricultural Genetics <i>or</i> CS 211 Plant Genetics	3	CH 220 Introduction to Organic Chemistry CH 222 Organic Chemistry I Laboratory	3
CH 101 Chemistry-A Molecular Science	3	HESX 2xx Physical Education/Healthy Living	1
CH 102 General Chemistry Laboratory	1	SSC 200 Soil Science SSC 201 Soil Science Lab	3 1
	<i>Total:13</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	3	Advised Elective ¹	3
GEP Additional Breadth Requirement ²	3	ARE/BUS Elective ¹	3
HS 301 Plant Propagation	4	HS 451 Plant Nutrition	3
HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science	3	PB 321 Introduction to Whole Plant Physiology Plant Protection Elective ¹	3 3
Plant Protection Elective ¹	3		
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	3	Advised Elective ¹	4
ARE/BUS Elective ¹	3	ARE/BUS Elective ¹	3
Free Elective	3	Free Elective	3
GEP Social Science Requirement ²	3	GEP Humanities Requirement ²	3
PB/AEC 360 Ecology	4	GEP Interdisciplinary Perspectives Requirement ²	2
	<i>Total:16</i>		<i>Total:15</i>
Minimum Credit Hours Required for Graduation: 120			

1Major/Program Footnotes:

Students must choose a minimum of 6 hours from Plant Protection Electives, 9 hours from Business Electives, and 19 hours from Advised Electives. One course from must be selected from each Business Electives group (Entrepreneurship Electives and Management Electives). Advised Electives can also include any HS 495 Experimental Courses in Horticultural Science or any 500-level HS course.

Plant Protection Electives **(6 credits minimum)**

CS 414 Weed Science
CS 415 Integrated Pest Management
ENT 425 General Entomology
PP 315 Principles of Plant Pathology *or*
PP 318 Forest Pathology

Business Electives (9 credits minimum, at least one from each list)

Entrepreneurship Electives

ACC 280 Survey of Financial and Managerial Accounting
ARE 215 Small Business Accounting
ARE 321 Agriculture Financial Management
BUS 370 Operation Management
HS 475 Horticulture Entrepreneurship
MIE 201 Introduction to Business Processes
MIE 310 Introduction to Entrepreneurship
MIE 413 New Venture Planning

Management Electives

ARE 303 Farm Management
ARE 304 Agribusiness Management
ARE 306 Agriculture Law
ARE 309 Environmental Law and Economic Policy
ARE 311 Agriculture Markets
ARE 312 Agribusiness Marketing
ARE 332 Human Resource Management for Agribusiness
BUS 360 Marketing Methods

Advised Electives

(19 credits minimum; At least 3 credits from Broad Scope; Remaining 16 credits from can be from Broad-Scope, Ornamental, or Edible Plant Electives)

Broad-Scope Electives

ENT 203 An Introduction to Honey Bee and Beekeeping
ENT 401 Honey Bee Biology and Management
HS 242 Introduction to Small Scale Landscape Design
HS 280 Hands-On Horticulture
HS 471 Landscape Ecosystem Management
HS 440 Greenhouse Management
HS 476 Crop Physiology and Production in Controlled Environments
HS 491 Sustainable Agriculture
SSC 341 Soil Fertility and Fertilizers
SSC 342 Soil and Plant Nutrient Analysis
SSC 461 Soil Physical Properties and Plant Growth
PY 211 College Physics I
PY 212 College Physics II

Ornamental Plant Electives

CS 200 Introduction to Turfgrass Management
HS 302 Gardening with Herbaceous Perennials
HS 303 Ornamental Plant ID I
HS 304 Ornamental Plant ID II
HS 411 Nursery Management
HS 442 Floriculture Crop Production
PB 220 Local Flora

Edible Plant Electives

BAE 435 Precision Agriculture Technology
CS 230 Introduction to Agroecology
CS 430 Advanced Agroecology
FS 250 Basic Food Safety
HS 421 Temp-Zone Tree Fruits: Phys & Cult
HS 422 Small Fruit Production
HS 423 Viticulture
HS 431 Vegetable Production
HS 462 Postharvest Physiology
PB 215 Medicinal Plants
PB 325 Culinary Botany

2General 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 <https://oucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements/>. See categories below.

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

The following courses completed as part of the Major requirements fulfill all of this requirement: MA 107, MA 121 or MA 114 or MA 131 or ST 311

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

The following courses completed as part of the Major requirements fulfill all of this requirement: BIO 181, BIO 183 or PB 200, CH 101, CH 102

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

Choose from the University approved GEP Humanities course list.

Social Sciences (3 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Social Sciences course list. The following course if completed as part of the Major requirements fulfill part of this requirement: ARE 201 or EC 201 or EC 205

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 Humanities/Social Sciences/Visual and Performing Arts)

Interdisciplinary Perspectives (2 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following course if completed as part of the Major requirements fulfills part of this requirement: AEC 380, CS 224, ES 200, or IDS 201

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)

The following course if completed as part of the Major requirements fulfill this requirement: ALS 103 or 303

Global Knowledge (GK)

The following course if completed as part of the Major requirements fulfill this requirement: CS 224, AEC 380, ES 200, or IDS 201

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

CURRICULUM REQUIREMENTS

Format B – GEP 2009

Degree Title: Bachelor of Science in Horticultural Science

Current Degree Key: 11THG036

Effective Date of Revision: 7/2009

MAJOR FIELD OF STUDY REQUIREMENTS:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
Indicate if course or course groupings have a C-wall or MGPA requirement		List GEP category and hours satisfied by a Major requirement
Math MA 107, MA 121 or MA 114 or MA 131	6	Mathematics (6 hours)
Sciences CH 101, CH 102 CH 220 BIO 181 BIO 183 SSC 200 PB 321 ARE 201 or EC 201	4 4 4 4 4 3 3	Natural Science (4 hours) Natural Science (3 hours)
Departmental Requirements Writing Speaking Elective, COM 110 or COM 112 HS 201 HS 290 ANS(HS) 215 or CS 211	3 3 1 3	Communication in Major, GEP Co-Requisite
GRP 022 Elective ARE 303, ARE 304, ARE 311, ARE 312	3	
GRP 024 ARE/BUS Electives	3	
GRP 027 Foundation Electives	13	
GRP 029 Plant Protection Electives	6	
GRP 031 Specialization Electives	12	
GRP 037 Departmental Electives	12	
Concentration Courses/Groups/Electives:		
Free Electives:		
	10	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	101 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): ALS 103 or ALS 303	1	
Other:		
Total credit hours under College Requirements:	1 Hour	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS

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.

Specific courses should not be listed in any of the fields below other than ENG 101.

At least one of the following must be listed:

- 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 **X** 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: Minimum 39-40 hrs	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) 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.	X	(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) 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.	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) (Courses from two different disciplines) 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.	6	(Choose statement 1, 2 or 3) Statement 1
Social Sciences (6 credits) (Courses from two different disciplines) 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.	3	(Choose statement 1, 2 or 3) Statement 3 "Satisfies 3 credit hours"
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) 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.	3	(Choose statement 5 or 6) Statement 5
Interdisciplinary Perspectives (5-6 credits) 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.	5-6	(Choose statement 1, 2 or 3) Statement 1
Physical Education/Healthy Living (2 credits) (Including one Fitness and Wellness course)	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.	23-24	
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	(Choose statement 1 or 4) Statement 1
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) Statement 1
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.	125-126 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

CURRICULUM REQUIREMENTS Format B

<u>Degree/Plan Title:</u> Horticulture	<u>Plan SIS Code:</u> 11HORTBS
<u>Concentration/Subplan Title:</u> Production Systems and Entrepreneurship in Horticulture <u>Subplan SIS Code:</u> 11HSPSE	
<u>Indicate requirements status:</u> Current: X Proposed:	<u>Proposed Effective Semester:</u> 1/2019
<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
<i>Required Courses/Groups/ Electives:</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
<u>Math</u>		
MA 107 Precalculus I	3	Mathematical Sciences
MA 114 Intro to Finite Math with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci <i>or</i> ST 311 Introduction to Statistics	3	Mathematical Sciences
<u>Sciences</u>		
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	Natural Science
BIO 183 Intro Biology: Cellular & Molecular Bio <i>or</i> PB 200 Plant Life	4	Natural Science
CH 101 Chemistry-A Molecular Science	3	Natural Sciences
CH 102 General Chemistry Laboratory	1	
CH 220 Introduction to Organic Chemistry	3	
CH 222 Organic Chemistry I Lab	1	
<u>Writing Speaking Elective</u>		
COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication	3	Communication in the Major
<u>Social Sciences</u>		
ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics	3	Social Science Requirement
<u>Foundation Electives (all required)</u>		
HS 201 The World of Horticulture: Prin & Prac	3 (CP)	
HS 290 Horticulture: Careers & Opportunities	1	
SSC 200 Soil Science	3	
SSC 201 Soil Science Lab	1	
HS 301 Plant Propagation	4	
PB 321 Whole Plant Physiology	3	
ANS/HS 215 Ag Genetics (F) <i>or</i> CS 211 Plant Genetics (S)	3	
HS 451 Plant Nutrition (S)	3	

<p>AEC/PB 360 Ecology AEC 380 Global Water Resources <i>or</i> CS 224 Seed, Biotechnology & Society <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> IDS 201 Environmental Ethics</p>	4 3	Interdisciplinary Perspectives & Global Knowledge
<p>Students must take one of the following: (may receive up to 6 credits) HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science</p>	3	
<p><u>Plant Protective Electives (6 credits minimum)</u> CS 414 Weed Science CS 415 Integrated Pest Management ENT 425 General Entomology PP 315 Principles of Plant Pathology <i>or</i> PP 318 Forest Pathology</p>	6	
<p><u>Business Electives (9 credits minimum)</u> (9 credits minimum; at least one course from each elective group)</p>	9	
<p><i>Entrepreneurship Electives</i> ACC 280 Survey of Financial and Managerial Accounting ARE 215 Small Business Accounting ARE 321 Agricultural Financial Management BUS 370 Operation Management HS 475 Horticulture Entrepreneurship MIE 201 Introduction to Business Processes MIE 310 Introduction to Entrepreneurship MIE 413 New Venture Planning</p>		
<p><i>Management Electives</i> ARE 303 Farm Management ARE 304 Agribusiness Management ARE 306 Agricultural Law ARE 309 Environmental Law and Economic Policy ARE 311 Agricultural Markets ARE 312 Agribusiness Marketing ARE 332 Human Resource Management for Agribusiness BUS 360 Marketing Methods</p>		
<p><u>Advised electives</u> (19 credits minimum; At least 3 credits from Broad-scope; Remaining 16 credits from can be from Broad-scope, Ornamental, or Edible Plant Focus Electives)</p>		
<p><i>Broad-Scope Electives</i> HS 491 Sustainable Agriculture Entrepreneurship Study Abroad HS 280 Hands-On Horticulture HS 471 Landscape Ecosystem Management HS 242 Introduction to Small Scale Landscape Design</p>		

<p>ENT 203 An Introduction to Honey Bee and Beekeeping</p> <p>ENT 401 Honey Bee Biology and Management</p> <p>SSC 341 Soil Fertility and Fertilizers</p> <p>SSC 342 Soil Fertility Laboratory</p> <p>SSC 461 Soil Physical Properties and Plant Growth</p> <p>PY 211 College Physics I</p> <p>PY 212 College Physics II</p> <p><i>Ornamental Plant Electives:</i></p> <p>CS 200 Introduction to Turfgrass management</p> <p>HS 302 Gardening with Herbaceous Perennials</p> <p>HS 303 Ornamental Plant ID I</p> <p>HS 304 Ornamental Plant ID II</p> <p>HS 411 Nursery Management</p> <p>HS 440 Greenhouse Management</p> <p>HS 442 Floriculture Crop Production</p> <p>PB 220 Local Flora</p> <p><i>Edible Plant Electives</i></p> <p>BAE 435 Precision Agriculture Technology</p> <p>CS 230 Introduction to Agroecology</p> <p>CS 430 Advanced Agroecology</p> <p>FS 250 Basic Food Safety</p> <p>HS 421 Temperate-Zone Tree Fruits: Physiology and Culture</p> <p>HS 422 Small Fruit Production</p> <p>HS 431 Vegetable Production</p> <p>HS 423 Viticulture</p> <p>HS 462 Postharvest Physiology</p> <p>HS 476 Crop Physiology and Production in Controlled Environments</p> <p>PB 215 Medicinal Plants</p> <p>PB 325 Culinary Botany</p>		
<p><u>Concentration Courses/Groups/Electives:</u></p> <p>Plant Protection Elective - 6</p> <p>Business Electives – 9</p> <p>Advised Electives – 19</p>		
<p><u>Free Electives:</u></p> <p>Free Elective</p>	6	
<p>Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i></p>	96	
COLLEGE REQUIREMENTS:		
<p><u>Orientation Course(s):</u></p> <p>ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences <i>or</i></p> <p>ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences</p>	1	Diversity
<p><u>Other:</u></p>		
<p>Total credit hours under College Requirements:</p>	1	

<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>		<p>1 Choose course(s) from the University Approved GEP course list for this category.</p> <p>2 Minimum requirements are satisfied by Major/College course requirements.</p> <p>3 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.</p> <p>4 Co-requisite is satisfied by a Major/College course requirement.</p> <p>5 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.</p> <p>6 Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.</p>
General Education Program Requirements: Minimum 39-40 hrs	<i>Credit hours</i>	<i>How will the GEP requirement be met?</i> (Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits)	0	(Choose statement 1, 2 or 3) 2
Natural Sciences (7 credits) (At least 1 lab course or course with a lab)	0	(Choose statement 1, 2 or 3) 2
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) GEP Humanities Requirement	6	(Choose statement 1, 2 or 3) 1
Social Sciences (6 credits) GEP Social Science Requirement	3	(Choose statement 1, 2 or 3) 3
Additional Breadth (3 credits) (Choose approach that is different from the approach of the Major) 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.	3	(Choose statement 5 or 6) 5
Interdisciplinary Perspectives (5 credits) 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.	2	(Choose statement 1, 2 or 3) 3
Health and Exercise Studies (2 credits) PE 10x Fitness and Wellness Physical Education/Healthy Living	2	Choose course(s) from the University Approved GEP course list for this category.
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	20	
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	(Choose statement 1 or 4) 2
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) 2

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	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

SIGNATURE PAGE

COURSE ACTION FOR CURRICULUM CHANGES FOR SCIENCE CONCENTRATION OF
HORTICULTURAL SCIENCE BS DEGREE

RECOMMENDED BY:

Frank Jones Aug 20, 2018
HEAD, DEPARTMENT/PROGRAM DATE

ENDORSED BY:

[Signature] 8/31/18
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE DATE

[Signature] 8/5/18
COLLEGE DEAN DATE

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION DATE

DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA) DATE

APPROVED EFFECTIVE DATE

Curriculum Action Memorandum

To: Dr. Mike Mullen
Vice Chancellor and Dean of the Division of Academic and Student Affairs

From: Dr. Helen T. Kraus. *Helen Kraus*
Undergraduate Program Coordinator, Department of Horticultural Science

Date: August 24, 2018

Re: Revision to the Technology, Landscape Design Concentration of the B.S. in
Horticultural Sciences (title change and curriculum requirement changes)

Current Title: Technology, Landscape Design

Current SIS code: 11THL 097

Current CIP code: 01.1103

Proposed Effective Date: January 1, 2019

Proposed new title: Landscape Design, Gardens & Urban Environments

Proposed new SIS subplan code: 11HSLDGUE

Title change impact on the classification of the program (CIP code): none

The Department of Horticultural Science proposes to make the following changes to the Technology, Landscape Design concentration of the Bachelor of Science in Horticultural Science. The new title better reflects the curriculum changes and the inclusion of public gardens and urban spaces. Additionally, the new curriculum complies with the UNC Policy 400.1.5 by requiring 120 credit hours for completion.

One change to this concentration is the inclusion of more business electives to the curriculum. Alumni and industry has stated that students in this concentration need a stronger business background.

Another change is within the Advised Electives where we have created Broad-Scope, Landscape Design, and Gardens and Urban Environments Electives. We have do this to help student more easily identify a pathway of courses to take based on their goals.

The current and proposed Format A and Format B documents are included with changes indicated in red.

Impacts of changes on other programs or departments (consultations below):

- Agriculture and Life Sciences (**Correcting the name** of ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences and ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences)
- Statistics (**Add ST 311 Introduction to Statistics** – additional Math option to curriculum)
- Plant and Microbial Biology (**Add PB 200 Plant Life** – additional Natural Science option to curriculum; **Add PB/AEC 360** as a required course; **Add PB 220 Local Flora, PB 215 Medicinal Plants** to Advised Electives)
- Communication (**Add COM 202 Small Group Communication** – additional Writing Speaking Elective option to curriculum)
- Economics (**Add EC 205 Fundamental of Economics** – additional Social Science option to curriculum)
- Applied Ecology (**Add PB/AEC 360 Ecology** to required courses); **Add AEC 380 Global Water Resources**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Environmental Sciences (**Add ES 200 Climate Change and Sustainability**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Interdisciplinary Studies (**Add IDS 201 Environmental Ethics**. This course will be one of four options required for students to take as a portion of their Interdisciplinary Perspectives & Global Knowledge to required courses)
- Accounting (**Add ACC 280 Survey of Financial and Managerial Accounting** to the Business of the Advised Electives.)
- Agricultural Resource Economics (**Adding Add ARE 215 Small Business Accounting, ARE 304 Agribusiness Management, ARE 306 Agricultural Law, ARE 309 Environmental Law & Economic Policy, ARE 312 Agribusiness Marketing, ARE 321 Agricultural Financial management or ARE 323 Agribusiness Finance, and ARE 332 Human Resource Management** for Agribusiness to Business Electives.)
- Horticultural Science (**Add HS 492 Horticulture Internship or HS 493 Research Experience in Horticultural Science or HS 494 Teaching Experience in Horticultural Science** to required courses. **Add HS 491 Sustainable Agriculture Entrepreneurship Study Abroad, HS 280 Hands-On Horticulture, HS 420 Green Infrastructure, and HS 451 Plant Nutrition** to Broad-Scope Electives under Advised Electives. **New course names for HS 471 Landscape Ecosystem Management. Creation of an undergraduate section of Public Garden Administration - HS 433. Add HS 475 Horticulture Entrepreneurship** to Business electives).

Impact on current students in the program: No impact. Students currently enrolled under old concentration title will remain under that concentration title and requirements

Consultations from other departments:

Applied Ecology: I took a look through these changes and I think all is well, just want to clarify a couple of issues:

1. In previous versions of your curricula you've listed the Ecology course that we (Applied Ecology) split with PMB as 'AEC/PB 360' and you appear to allow either, meaning students could take the course in spring (AEC) or fall (PB). In new versions it appears to be listed only as PB 360 in the fall. Does that imply that your students will all be steered to the PB version rather than the AEC version? And if so, what impact (rough estimate) should we expect on our enrollment?

My response to his is that we have always just listed PB 360 in our concentrations. By including AEC 360 it allows the students the option of taking this course in the Spring as well. This should be a slight positive increase in AEC 360 enrollments but I would only expect 10 more students per year at best. We show the ecology course in the fall because that is when it fits in their schedule best.

2. AEC 380, Global Water Resources, is my course. Before becoming DH, I offered it every summer. I still love to teach and hope to get back to offering it, but summer will no longer be an option, which means I have to determine a way to free enough time to teach it during spring or fall. I hope that happens but can't promise anything at this point. I do appreciate the support for the course and would love to have your students if I can get it going again - the best thing about this class, in my view, is that it has drawn students from across campus, which has allowed for really interesting trans-disciplinary conversations.

Accounting: The accounting curriculum has been changed to add a new permanent class (ACC 280) to replace the old ACC 200 which was part of your previous curricula. ACC 280 is designed specifically for non-PCOM students and is a hybrid of financial accounting (ACC 210) and managerial accounting (ACC 220). I would recommend that your students take ACC 280 rather than ACC 210 or ACC 220. We changed and are requiring ACC 280.

Communications: The addition of COM 202 Small Groups to your curriculum works well for the Dept of Communication. So, the changes to your curriculum should not be a problem for us with our students trying to enroll in COM 202.

Poole College of Management: Poole is comfortable with the proposal based on communication with horticulture regarding limited availability of seats, especially during the fall and spring semesters, and the very real likelihood that availability may be limited primarily to summer enrollment.

Plant and Microbial Biology: Most of the changes for this particular concentration are acceptable, but I do have a few comments/suggestions and a couple of questions about a few features:

1. While PB 360 is taught in the fall, the course should probably be listed on both formats as AEC/PB 360. – Done

2. Local Flora is not an ornamental plants course, so I am curious about why it appears on an Ornamental Plant Electives list. It does not seem to be related to any of the other courses. Does it really fit there? – Students want/need to learn native plants as well.

Agriculture & Resource Economics: It is fine with ARE if you include ARE 215, ARE 304, ARE 309, ARE 312, ARE 321, ARE 323 and ARE 332.

Statistics: We're okay with this in Statistics.

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY

Effective Semester: 1/2019

DEGREE TITLE: **Bachelor of Science in Horticultural Science**

CONCENTRATION TITLE: **Landscape Design, Gardens & Urban Environments**

CURRENT DEGREE KEY: **11HSLDGUE**

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences <i>or</i> ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences	1	BIO 183 Intro Biology: Cellular & Molecular Bio <i>or</i> PB 200 Plant Life	4
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication	3
ENG 101 Academic Writing and Research	4	GEP Humanities Requirement ²	3
HS 201 The World of Horticulture: Prin & Prac	3	MA 114 Intro to Finite Math with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci	3
HS 290 Horticulture: Careers & Opportunities	1	<i>or</i> ST 311 Introduction to Statistics	
MA 107 Precalculus I	3		
	<i>Total: 16</i>		<i>Total 13</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 101 Chemistry-A Molecular Science	3	Advised Elective ¹	3
CH 102 General Chemistry Laboratory	1	ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics	3
GEP Humanities Requirement ²	3	HS 242 Introduction to Landscape Design	3
HS 303 Ornamental Plant Identification I	3	HS 304 Ornamental Plant Identification II	3
PB/AEC 360 Ecology	4	SSC 200 Soil Science	3
		SSC 201 Soil Science Lab	1
	<i>Total: 14</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Business Elective ¹	3	Advised Elective ¹	3
HESF 1xx Fitness and Wellness	1	AEC 380 Global Water Resources <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> IDS 201 Environmental Ethics <i>or</i> NR/IDS 303 Humans and the Environment	3
HS 272 Landscape Design/Build	6	Free Elective	3
HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science	3	GEP Social Science Requirement ²	3
Plant Protection Elective ¹	3	PB 321 Introduction to Whole Plant Physiology	3
	<i>Total:16</i>		<i>Total: 15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	4	Advised Elective ¹	6
GEP Additional Breadth Requirement ²	3	Plant Protective Elective ¹	3
HS 301 Plant Propagation	4	Free Elective	3
HS 471 Landscape Ecosystem Management	4	GEP Interdisciplinary Perspectives Requirement ²	2
		HESX 2xx Physical Education/Healthy Living	1
	<i>Total:15</i>		<i>Total: 15</i>
Minimum Credit Hours Required for Graduation: 120			

Major/Program Footnotes:

¹ Students must choose a minimum of 6 hours from Plant Protection Electives, 3 hours from Business Electives, and 16 hours from Advised Electives. Advised Electives can also include any HS 495 Experimental Courses in Horticultural Science or any 500-level HS course.

Plant Protection Electives (6 credits minimum)

CS 414 Weed Science
CS 415 Integrated Pest Management
ENT 425 General Entomology
PP 315 Principles of Plant Pathology *or*
PP 318 Forest Pathology
CS 414 Weed Science

Business Electives (3 credits minimum)

ACC 280 Survey of Financial and Managerial Accounting
ARE 215 Small Business Accounting
ARE 304 Agribusiness Management
ARE 306 Agricultural Law
ARE 309 Environmental Law & Economic Policy
ARE 312 Agribusiness Marketing
ARE 321 Agricultural Financial Management *or*
ARE 323 Agribusiness Finance
ARE 332 Human Resources Management for Agribusiness
HS 475 Horticulture Entrepreneurship

Advised Electives

(16 credits minimum; At least 3 credits from Broad-scope; Remaining 13 credits from can be from Broad-scope, Landscape Design, or Gardens and Urban Environments Electives)

Broad-Scope Electives

CS 200 Turfgrass Management
HS 280 Hands-On Horticulture
HS 420 Green Infrastructure
HS 432 Permaculture
HS 451 Plant Nutrition
HS 491 Sustainable Agriculture
Entrepreneurship Study Abroad
SSC 341 Soil Fertility and Nutrient Management
SSC 342 Soil and Plant Nutrient Analysis
PB 215 Medicinal Plants *or*
PB 220 Local Flora

Landscape Design Electives

HS 252 Landscape Graphic Communication
HS 357 Landscape Grading and Drainage
HS 400 Residential Landscaping
HS 416 Planting Design
HS 418 Digital Media Graphics for Landscape Designers

Gardens and Urban Environments Electives

COM 289 Science Communication and Public Engagement
HS 400 Residential Landscaping
HS 401 Landscape Grading and Drainage
HS 418 Digital Media Graphics for Landscape Designers
HS 433 Public Garden Administration
NP 340 Grant Writing for Nonprofits
PS 203 Introduction to Nonprofits
HS 428 Service Learning in Urban Ag. Systems

² Students must have at least one computer-aided design course. HS 418 gives an overview of AutoCAD, Photoshop, Illustrator, etc. as applied to a single semester-long project. If a student plans on pursuing an MLA degree, they should take LAR 210 (Digital Drawing) and LAR 211 (Digital Design Media). Any one of these courses fulfills this requirement.

***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 <https://oucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements/>. See categories below.

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

The following courses completed as part of the Major requirements fulfill all of this requirement: MA 107, MA 121 or MA 114 or MA 131 or ST 311

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

The following courses completed as part of the Major requirements fulfill all of this requirement: BIO 181, BIO 183 or PB 200, CH 101, CH 102

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

Choose from the University approved GEP Humanities course list.

Social Sciences (3 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Social Sciences course list. The following course if completed as part of the Major requirements fulfill part of this requirement: ARE 201 or EC 201 or EC 205

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 Humanities/Social Sciences/Visual and Performing Arts)

Interdisciplinary Perspectives (2 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following course if completed as part of the Major requirements fulfills part this requirement: AEC 380, ES 200, IDS 201, or NR/IDS 303

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)

The following course if completed as part of the Major requirements fulfill this requirement: ALS 103 or 303

Global Knowledge (GK)

The following course if completed as part of the Major requirements fulfill this requirement: AEC 380, ES 200, IDS 201, or NR/IDS 303

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

SEMESTER-BY-SEMESTER CURRICULUM DISPLAY

Effective Semester: **7/2015**

DEGREE TITLE: **Bachelor of Science in Horticultural Science**

CONCENTRATION TITLE: **Technology, Landscape Design**

CURRENT DEGREE KEY: **11 THL 097**

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Introductory Topics in ALS	1	BIO 183 Intro Biology: Cellular & Molecular Bio	4
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	HS 290 Horticulture: Careers & Opportunities	1
ENG 101 Academic Writing and Research	4	MA 114 Intro to Finite Math with Applications <i>or</i>	3
HS 201 The World of Horticulture: Prin & Prac	3	MA 121 Elements of Calculus <i>or</i>	
MA 107 Precalculus I	3	MA 131 Calculus for Life and Management Sci	
PE 10x Fitness and Wellness*	1	GEP Humanities Requirement*	3
		Physical Education/Healthy Living	1
		COM 110 Public Speaking <i>or</i>	3
		COM 112 Interpersonal Communication	
	<i>Total: 16</i>		<i>Total 15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 101 Chemistry-A Molecular Science	3	HS 304 Ornamental Plant Identification II	3
CH 102 General Chemistry Laboratory	1	HS 242 Introduction to Landscape Design	3
HS 303 Ornamental Plant Identification I	3	HS 252 Landscape Communication Graphics	2
GEP Humanities Requirement*	3	Advised Elective ¹	3
GEP Social Science Requirement*	3	SSC 200 Soil Science	4
ARE 201 Intro to Agricultural & Res Econ <i>or</i>	3		
EC 201 Principles of Microeconomics			
	<i>Total:16</i>		<i>Total:15</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
HS 357 Site Design & Construction Materials	4	Free Elective	3
Natural Science Elective ¹	4	HS 400 Residential Landscaping	6
Plant Protection Elective ¹	3	PB 321 Introduction to Whole Plant Physiology	3
HS 471 Tree and Ground Maintenance	4	Plant Protection Elective ¹	3
	<i>Total:15</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Advised Elective ¹	3	Advised Elective ¹	3
GEP Additional Breadth Requirement*	3	HS 401 Landscape Construction Studio	6
HS 416 Planting Design	4	Advised Elective ¹	3
HS 418 Digital Media for Designers ²	3	GEP Interdisciplinary Perspectives Requirement*	2
GEP Interdisciplinary Perspectives Requirement*	3		
	<i>Total:16</i>		<i>Total: 14</i>
Minimum Credit Hours Required for Graduation*: 122			

8/18/10
2/22/12
9/25/14

Major/Program Footnotes (THL):

¹ Students must choose a minimum of 7 hours from the Natural Science Electives column, 6 hours from the Plant Protection Electives column, and 12 hours from the Advised Electives column. Advised Electives can also include any HS 495 Experimental Courses in Horticultural Science or any 500 level HS course as well as up to 6 hours (combined) of HS 492 Horticulture Internship and HS 493 Independent Study in Horticultural Science.

Natural Science Electives (7 hour minimum)	Plant Protection Electives (6 hours minimum)	Advised Electives (12 hours minimum)
PB 360 Ecology (4, F, S, SU)	CS 414 Weed Science (4, F)	CS 200 Introduction to Turfgrass Management (4, F). or CS 210 Lawn and Sports Turf (3, F, S, SU)
PB 400 Plant Structures and Diversity (4, S)	CS 415 Integrated Pest Management (3, F)	CS 230 Introduction to AgroEcology (3, F)
PB 421 Plant Physiology (3, S)	ENT 402 Forest Entomology (3, S) or ENT 425 General Entomology (3, F, SU)	CS 430 Advanced AgroEcology (4, S)
PB 422 Plant Physiology Lab (1, S)	PP 315 Principles of Plant Pathology (4, F) or PP 318 Forest Pathology (3, S)	ENT 203 Introduction to Honey Bees and Beekeeping (3, F, S, SU)
CH 201 Chemistry - A Quantitative Science (3, F, S, SU) CH 202 Quantitative Chemistry Lab (1, F, S, SU)		ENT 401 Honeybee Biology and Management (3, S)
CH 220 Introductory Organic Chemistry (4, F, S, SU)		FOR 220 Urban and Community Forestry (3, F)
MEA 101 Geology I: Physical (3, F, S, SU) MEA 110 Geology I: Lab (1, F, S, SU)		FOR 339 Dendrology (4, F)
PY 211 College Physics I (4, F, S, SU)		HS 301 Plant Propagation (4, F)
PY 212 College Physics II (4, F, S, SU)		HS 302 Gardening With Herbaceous Perennials (3, S odd years)
SSC 341 Soil Fertility & Fertilizers (3, F) SSC 342 Soil Fertility Lab (1, F)		HS 411 Nursery Management (3, F)
SSC 452 Soil Classification (4, S)		HS 421 Temperate-zone Tree Fruits (3, S odd)
SSC 461 Soil Physical Properties & Plant Growth (3, F)		HS 422 Small Fruit Production (3, S even)
		HS 423 Viticulture (3, S odd)
		HS 431 Vegetable Production (4, F)
		HS 432 Permaculture: Sustainable Living (3, F, S)
		HS 440 Greenhouse Management (3, F)
		HS 442 Floriculture Crop Production (3, S)
		HS 451 Plant Nutrition (3, S)
		HS 462 Postharvest Physiology (3, S)
		HS 493 Internship (3, F, S)
		HS 533 Public Garden Administration (3, Fall even)
		LAR 210 Digital Drawing for Landscape Architecture (3, F)
		LAR 211 Digital Design Media for Landscape Architecture (3, S)
		LAR 221 Intro to Environ. & Behav. Design (3, F)
		LAR 510, Landscape Graphics (3, SUII)
		PB 213 Plants and Civilization (3, S)
		PB 215 Medicinal Plants (3, F)
		PB 219 Plants in Folklore, Myths & Religion (3, F)
		PB 220 Local Flora (3, S)

² Students must have at least one computer-aided design course. HS 418 gives an overview of AutoCAD, Photoshop, Illustrator, etc. as applied to a single semester-long project. If a student plans on pursuing an MLA degree, they should take LAR 210 (Digital Drawing) and LAR 211 (Digital Design Media). Any one of these courses fulfills this requirement.

***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>.

*Courses/groupings in the above display with an asterisk may fulfill all or part of a GEP requirement. See categories below.

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 107, MA 121 or MA 114 or MA 131**

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, BIO 181**

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**

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 201 or EC 201**

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: **None**

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: **None**

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**

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

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> Horticulture	<u>Plan SIS Code:</u> 11HORTBA
<u>Concentration/Subplan Title:</u> Landscape Design, Gardens & Urban Environments	<u>Subplan SIS Code:</u> 11HSLDGUE
<u>Indicate requirements status:</u> Current: X Proposed:	<u>Proposed Effective Semester:</u> 1/2019
<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:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
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
<u>Math</u> MA 107 Precalculus I MA 114 Introduction to Finite Mathematics with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci <i>or</i> ST 311 Introduction to Statistics	3 3	Mathematical Sciences
<u>Sciences</u> BIO 181 Intro Biology: Ecol, Evol, Biodiversity BIO 183 Intro Biology: Cellular & Molecular Bio <i>or</i> PB 200 Plant Life CH 101 Chemistry-A Molecular Science CH 102 General Chemistry Laboratory	4 4 3 1	Natural Science Natural Science Natural Science
<u>Writing and Speaking Elective</u> COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication <i>or</i> COM 202 Small Group Communication	3	Communication in the Major
<u>Social Sciences</u> ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics <i>or</i> EC 205 Fundamentals of Economics	3	Social Science Requirement
<u>Foundation Electives (all required)</u> HS 201 The World of Horticulture: Prin & Prac HS 242 Introduction to Small Scale Landscape Design HS 272 Landscape Design/Build HS 290 Horticulture: Careers & Opportunities HS 301 Plant Propagation HS 303 Plant ID I and HS 304 Plant ID II HS 471 Landscape Ecosystem Management SSC 200 Soil Science SSC 201 Soil Science Lab PB 321 Whole Plant Physiology PB 360 Ecology	3 3 6 1 4 3 3 4 3 1 3 4	

<p>AEC 380 Global Water Resources <i>or</i> ES 200 Climate Change and Sustainability <i>or</i> IDS 201 Environmental Ethics <i>or</i> NR/IDS 303 Humans and the Environment</p>	3	Interdisciplinary Perspectives & Global Knowledge
<p>Students must take one of the following: (may receive up to 6 credits) HS 492 Horticulture Internship <i>or</i> HS 493 Research Experience in Horticultural Science <i>or</i> HS 494 Teaching Experience in Horticultural Science</p>	3	
<p><u>Plant Protective Elective (Select from the list below)</u> CS 415 Integrated Pest Management CS 414 Weed Science PP 315 Principles of Plant Pathology <i>or</i> PP 318 Forest Pathology ENT 425 General Entomology</p>	6	
<p><u>Business Elective (Select from the list below)</u> ACC 280 Survey of Financial and Managerial Accounting ARE 215 Small Business Accounting ARE 304 Agribusiness Management ARE 306 Agricultural Law ARE 309 Environmental Law & Economic Policy ARE 312 Agribusiness Marketing ARE 321 Agricultural Financial Management <i>or</i> ARE 323 Agribusiness Finance ARE 332 Human Resources Management for Agribusiness HS 475 Horticulture Entrepreneurship</p>	3	
<p><u>Advised Electives</u> (16 credits minimum; At least 3 credits from Broad-scope; Remaining 13 credits from can be from Broad-scope, Landscape Design, or Gardens and Urban Environments Electives)</p>	16	
<p><i>Broad-Scope Electives</i> CS 200 Turfgrass Management HS 280 Hands-On Horticulture HS 420 Green Infrastructure HS 432 Permaculture HS 451 Plant Nutrition HS 491 Study Abroad SSC 341 Soil Fertility and Nutrient Management SSC 342 Soil and Plant Nutrient Analysis PB 215 Medicinal Plants <i>or</i> PB 220 Local Flora</p>		
<p><i>Landscape Design Electives</i> HS 252 Landscape Graphic Communication HS 357 Landscape Grading and Drainage HS 400 Residential Landscaping HS 416 Planting Design HS 418 Digital Media Graphics for Landscape Designers</p>		
<p><i>Gardens and Urban Environments Electives</i> COM 289 Science Communication and Public Engagement HS 400 Residential Landscaping HS 401 Landscape Grading and Drainage</p>		

HS 418 Digital Media Graphics for Landscape Designers HS 433 Public Garden Administration NP 340 Grant Writing for Nonprofits PS 203 Introduction to Nonprofits HS 428 Service Learning in Urban Ag. Systems		
Concentration Courses/Groups/Electives: Plant Protection Elective - 6 Business Electives – 3 Advised Electives – 16	25	
Free Electives:	6	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	99	
COLLEGE REQUIREMENTS:		
Orientation Course(s): ALS 103 Freshman Transitions and Diversity in Agriculture & Life Sciences <i>or</i> ALS 303 Transfer Transitions and Diversity in Agriculture & Life Sciences	1	Diversity
Other:	0	
Total credit hours under College Requirements:	1	

NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS		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>Specific courses should not be listed in any of the fields below other than ENG 101.</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 X 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>	0	(Choose statement 1, 2 or 3)	
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>	0	(Choose statement 1, 2 or 3)	
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)	
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)	
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)	
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	(Choose statement 1, 2 or 3)	
Health and Exercise Studies (2 credits) (Including one Fitness and Wellness course)	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.	20		
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	(Choose statement 1 or 4)	
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4)	
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)		Satisfied by College/Program Requirements	
Technology Fluency		Satisfied by College/Program Requirements	
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	120	As applicable, indicate here the overall GPA requirement for degree completion including course completion.	

CURRICULUM REQUIREMENTS**Format B**

<u>Degree/Plan Title:</u> Horticulture	<u>Plan SIS Code:</u> 11HORTBS
<u>Concentration/Subplan Title:</u> Technology Landscape Design	<u>Subplan SIS Code:</u> 11HORTTHL
<u>Indicate requirements status:</u> Current: X Proposed:	<u>Proposed Effective Semester:</u> 8/2015
<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
HS 201 The World of Horticulture: Prin & Prac	3 (CP)	Natural Science
HS 290 Horticulture: Careers & Opportunities	1	
HS 303 Ornamental Plant Identification I	3 (CP)	
HS 304 Ornamental Plant Identification II	3 (CP)	
HS 242 Introduction to Landscape Design	3	
HS 252 Landscape Communication Graphics	2 (CP)	
HS 357 Site Design & Construction Materials	4	
HS 471 Tree and Ground Maintenance	4	
HS 400 Residential Landscaping	6 (CP)	
HS 416 Planting Design	4	
HS 418 Digital Media for Designers	3	
HS 401 Landscape Construction Studio	6 (CP)	
SSC 200 Soil Science	4	Natural Science
PB 321 Introduction to Whole Plant Physiology	3	
MA 107 Precalculus I	3	Mathematical Sciences
MA 114 Intro to Finite Math with Applications <i>or</i> MA 121 Elements of Calculus <i>or</i> MA 131 Calculus for Life and Management Sci	3	Mathematical Sciences
BIO 181 Intro Biology: Ecol, Evol, Biodiversity	4	Natural Sciences
BIO 183 Intro Biology: Cellular & Molecular Bio	4	Natural Sciences
CH 101 Chemistry-A Molecular Science	3	Natural Science
CH 102 General Chemistry Laboratory	1	Social Science Requirement
COM 110 Public Speaking <i>or</i> COM 112 Interpersonal Communication	3	Social Science Requirement
ARE 201 Intro to Agricultural & Res Econ <i>or</i> EC 201 Principles of Microeconomics	3	
Natural Science Elective	4	
<u>Concentration Courses/Groups/Electives:</u>		
Plant Protection Elective	6	
Advised Elective	12	
<u>Free Electives:</u>		
Free Elective	3	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	98	

COLLEGE REQUIREMENTS:		
Orientation Course(s): ALS 103 Introductory Topics in ALS	1	Diversity
Other:		
Total credit hours under College Requirements:	1	

<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>Specific courses should not be listed in any of the fields below other than ENG 101.</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 X 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)	0	(Choose statement 1, 2 or 3) 2
Natural Sciences (7 credits) (At least 1 lab course or course with a lab)	0	(Choose statement 1, 2 or 3) 2
English 101 (C- or better required) (4 credits)	4	ENG 101
Humanities (6 credits) GEP Humanities Requirement	6	(Choose statement 1, 2 or 3) 1
Social Sciences (6 credits) GEP Social Science Requirement	3	(Choose statement 1, 2 or 3) 3
Additional Breadth (3 credits) (Choose approach that is <i>different</i> from the approach of the Major) 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.	3	(Choose statement 5 or 6) 5
Interdisciplinary Perspectives (5 credits) 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.	5	(Choose statement 1, 2 or 3) 1
Health and Exercise Studies (2 credits) PE 10x Fitness and Wellness Physical Education/Healthy Living	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.	23	
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	(Choose statement 1 or 4) 1
Global Knowledge co-requisite (GK)	n/a	(Choose statement 1 or 4) 1

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		Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	122	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

SIGNATURE PAGE

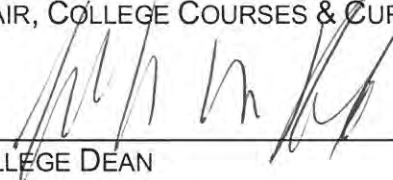

COURSE ACTION FOR CURRICULUM CHANGES FOR LANDSCAPE CONCENTRATION OF
HORTICULTURAL SCIENCE BS DEGREE

RECOMMENDED BY:

 _____ 
HEAD, DEPARTMENT/PROGRAM DATE

ENDORSED BY:

 _____ 
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE DATE

 _____ 
COLLEGE DEAN DATE

APPROVED BY:

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION DATE

DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA) DATE

APPROVED EFFECTIVE DATE




University College
Division of Academic and Student Affairs
North Carolina State University
universitycollege.dasa.ncsu.edu/

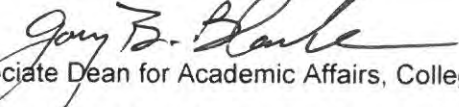
Campus Box 7105
101 Current Drive
Raleigh, NC 27695-7105
P: 919.513.1937

October 26, 2018

Memorandum

To: University Courses and Curriculum Committee (UCCC)

From: Mike Mullen 
Vice Chancellor and Dean

Gary Blank 
Interim Associate Dean for Academic Affairs, College of Natural Resources

Re: Change of ownership of the Sustainable Energy Minor (24SEM)

In consultation with the College of Natural Resources, the University College is requesting the administrative transfer of the Sustainable Energy Minor (24SEM) from University College to the College of Natural Resources.

The Sustainable Energy Minor (24SEM) has resided in University College since its inception. Recently the Environmental Science major and minor transferred to the College of Natural Resources, and in order to remain consistent with program location and staffing, we request the Sustainable Energy Minor be administratively transferred from the University College to the College of Natural Resources effective Fall 2018.

The minor code should be updated from 24SEM to an academic org code associated with the College of Natural Resources, such as 15SEM. Students currently enrolled in the 24SEM minor should be transferred into the new minor code upon its creation.

C: Li Marcus, Office of Undergraduate Courses, Curricula, and Academic Standards
John Harrington, Registration and Records