



University Courses & Curricula Committee 2016-2017

April 26th, 2017
Talley Student Union 4140
12:45pm-2:45pm

Call to Order 12:45pm

- Welcome and Instructions, Chair Andy Nowel
- Remarks from Vice Chancellor and Dean Dr. Mike Mullen
- Remarks from Associate Vice Provost, Dr. Barbara Kirby
- Approval of UCCC April 12th, 2017 Minutes
- Course and Curricular Business

New Business

Consent Agenda		
Action	Type	Notes
ANT 416 Research Methods in Cultural Anthropology	Revision	Requisites
BME 342 Analytical and Experimental Methods for Biomedical Engineers	Revision	Requisites
BME 362 Biomaterials Characterization	Revision	Requisites
MSE 270 Materials Science and Engineering Seminar	Revision	Requisites
MSE 350 Mechanics of Materials	Drop	Replaced by MSE 420

College of Agriculture and Life Sciences			
Presenter	Reviewers	Action	Type
Trivedi	Lindsay, Hessling, Despain	ANS 495 Special Topics in Animal Science	Revising: title and shell categories
Trivedi	Hessling, Hergeth, Driscoll	FS 481 Research Experience in Food and Bioprocessing Science	New course
Tarpy	Klesath, Banks, Harper	BS Biological Engineering Environmental Engineering 11BEBS-11BEBEE	Revisions

College of Engineering			
Presenter	Reviewers	Action	Type
Ferguson	Driscoll, Trivedi, Podurgal	ECE 420 Wireless Communication Systems	Revising: SLO
Ferguson	Despain, Lindsay, Banks	MAE 251 Aerospace Vehicle Performance	Revising: SLO, requisites, description
Ferguson	Hessling, Klesath, Beller	MSE 320 Introduction to Defects in Solids	Revising: SLO, requisites

College of Humanities and Social Sciences			
Presenter	Reviewers	Action	Type
Driscoll	Klesath, Beller, Harper	PS 353 Issues in Latin American and Caribbean Politics	New Course
Despain	Ferguson, Wu, Beller	Foreign Languages and Literatures, Foreign Language Education concentration 16FLLBA-16FLLED	Revisions
Despain	Ophanides, Fath, Tarpy	BA Leadership in the Public Sector-DE 16LPSBA-16LPSBAZ	Revisions

College of Sciences			
Presenter	Reviewers	Action	Type
Klesath	Rieder, Tarpy, Hergeth	Bachelor of Science in Genetics 17GNBS	Revisions

SLO = Student Learning Outcomes

Discussion: Vote on short term and long term Syllabus Availability proposals.

Notes:

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

University Courses and Curricula CommitteeApril 12, 2017
Talley Student Union 4140
Call to Order: 12:48 pm**Members Present:** Chair Andy Nowel, Amanda Beller, Scott Despain, Catherine Driscoll, Mian Wu, Elizabeth Fath, Andreas Orphanides, Kathleen Rieder, Richard Podurgal, Daniel Harper, Scott Ferguson, Greg Young, Helmut Hergeth**Members Absent:** Michael Robinson, Steven Peretti, Peter Hessling, Shweta Trivedi, Marta Klesath, David Tarpy, Edwin Lindsay, Alton Banks**Guest:** Deborah Acker, Myra Moses, Genia Sklute**Ex-Officio Members Present:** Lexi Hergeth, Li Marcus, Barbara Kirby, Rebecca Swanson, Kyle Pysher, John Harrington, Jordan Luzander, Carrie Zelna**WELCOME AND INTRODUCTIONS**

- **Remarks from Chair Andy Nowel-** Chair introduced guests and proxy.
- **Remarks from Associate Vice Provost Dr. Barbara Kirby-** The agroecology degree is ready for the Board of Governors. Dr. Kirby explained the process and announced GA has reviewed the program and approved it for the next level, the Board of Governors
- **Approval of the Minutes from March 29nd 2017 – Approved Unanimously**
 - Discussion: Member Helmut Hergeth moved to approve. Minutes from the previous meeting were presented and approved without further discussion.

NEW BUSINESS

- **Consent Agenda—Approved Unanimously**
Discussion: Member Andreas Orphanides moved to approve.
- **HESS 195 Special Topics in Health and Exercise Studies— Approved Unanimously**
Discussion: Member Beth Fath presented the course. Member commented shells are in almost every curriculum and supports this course.
- **HON 290 Honors Special Topics - Humanities/US Diversity— Approved Unanimously**
Discussion: Member Beth Fath presented the course.
- **HON 293 Honors Special Topics - Interdisciplinary Perspectives/Global Knowledge— Approved Unanimously**
Discussion: Member Beth Fath presented the course.
- **HON 297 Honors Special Topics - Interdisciplinary Perspectives/US Diversity- Approved Unanimously**
Discussion: Member Amanda Beller presented the course.
- **HON 390 Music and the Celtic World- Approved Unanimously**
Discussion: Member Amanda Beller presented the course.
- **MS 302 Applied Leadership in Small Unit Operations- Approved Unanimously**
Discussion: Member Amanda Beller presented the course.
- **SLC 300 Leading with an Ethical Perspective- Approved Unanimously**
Discussion: Member Amanda Beller presented the course. Member noted the philosophy department was not consulted. Dr. Kirby indicated the associate deans were provided a consultation that was due today. Member from Humanities and Social Sciences indicated she did not see anything wrong with the course. Dr. Kirby encouraged any suggestions from the department should be brought to Debbie Acker, who agreed.
- **SLC 450 Applied Leadership Skill-Building within an Internship Experience - Approved**
Discussion: Member Amanda Beller presented the course. Member asked how a leadership internship is different

from a regular internship. Guest Acker responded that this course would focus on how to handle one's self in meetings and lead effectively.

- **Dance Minor- Approved Unanimously**
Discussion: Member Amanda Beller presented the curricular action.
- **Shelton Leadership Center Minor- Approved Unanimously**
Discussion: Member Amanda Beller presented the curricular action.
- **Forest Management BS 15FORMTBS- Approved Unanimously**
Discussion: Member Scott Despain presented the curricular action.

Members discussed if they should approve items if the reviewers are not present, enough reviewers are present to continue.

- **GN 425 Advanced Genetics Laboratory-Approved Unanimously**
Discussion: Member Scott Despain presented the course.
- **Biological Sciences: Ecology, Evolution, and Conservation Biology 17BIOSCEEC –Approved Unanimously**
Discussion: Member Scott Despain presented the curricular action.
- **Biological Sciences: Human Biology 17BIOSCHB –Approved Unanimously**
Discussion: Member Scott Despain presented the curricular action.
- **Genetics Minor 17GNM –Approved Unanimously**
Discussion: Member Scott Despain presented the curricular action.
- **CSC 326 Software Engineering- Approved Unanimously**
Discussion: Member Scott Ferguson presented the course. Members discussed the topic schedule being separate. Member brought attention to page 3 of the syllabus missing a bullet point as a friendly suggestion. Member asked about the schedule, which has a day labeled “no class” and asked if this makes a difference for contact hours. Presenter indicated the Tuesday that “no class” is indicated is to provide a due date that did not fall on a holiday.
- **Computer Science (BS) 14CSCBS – Approved Unanimously**
Computer Science (BS) Game Development 14CSCBS-14CSCGAME
Discussion: Member Scott Ferguson motioned to combine the two curricula actions and presented the curricula actions.
- **TT/FTM 380 Management and Control of Textile and Apparel Systems- Approved Pending**
Discussion: Member Helmut Hergeth presented the course. Member indicated the textbook cost should be numerically presented, typo indicating “100:00 am” should be fixed in the syllabus, and the prerequisite prefix in the syllabus needs to be fixed. Member asked the course be pending a consultation with the presenter to ensure the course has met these pending items.
- **ENG 341 Literature and Science- Approved Pending**
Discussion: Member Catherine Driscoll presented the course. Member asked if the indicated restrictive statement means 30% of students should be sophomore standing or higher. XNOV member explained the 70% enrollment open to all students is made clear to students when enrolling, member accepted. Member asked if the textbook will be provided to students and asked for clarity on what is provided. Presenter will bring these to the faculty member. Members suggested fixing the open quotation typo in the syllabus. Members discussed if subjects take multiple weeks to cover a topic, the schedule can group these together. Li Marcus announced the restrictive statement will be coded for all students enrolling. Dr. Kirby discussed the rules recently sent by the Provost that outline the importance of providing the cost of textbooks, or at least an estimate of cost.
- **PHI 320 Philosophy of Race- Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course.

- **SOC 202 Principles of Sociology- Approved Unanimously**
Discussion: Member Catherine Driscoll presented the course. Member brought attention to the syllabus providing the Amazon cost of the textbook but not the NCSU bookstores. Members discussed and agreed this is acceptable.
- **SOC/WGS 204 Sociology and Family- Approved Unanimously**
Discussion: Member Scott Despain presented the course. Member brought attention to the syllabus indicating not to email the instructor unless to set up an appointment, members discussed and agreed this is acceptable.
- **BS Philosophy, Concentration in Logic, Representation and Reasoning – Approved Unanimously**
Discussion: Member Scott Despain presented the curricula action. Member asked if when the indicated new hire will require the department to bring the action forward again. Presenter indicated if new courses are created they will be brought forward accordingly.

Discussion: Chair asked for a display of who will be able to attend the May 3, 2017 meeting. Members and XNOV members discussed if having the final UCCC May 3, 2017 meeting is necessary. Dr. Kirby indicated if there is not a need for the meeting it will be cancelled.

Syllabus Availability Proposal Discussion: Daniel Harper indicated the subcommittee would like feedback for this meeting, but would like to wait to vote until the last meeting with the hope that a representative from each college will be present. CHASS will meet with their college next week for any final comments.


Meeting adjourned at 1:34 pm

Respectfully submitted by Lexi Hergeth

March 8, 2017

MEMORANDUM

To: University Courses and Curricula Committee

From: S. Andrew Hale, Ph.D. 
Undergraduate Coordinator, Bio & Ag Engineering

Subject: Degree Revision for 11BEBS-11BEBEE, B.S. in Biological Engineering – Environmental Engineering Concentration

Effective in June 2017, the following revisions are requested for the B.S. in Biological Engineering – Environmental Engineering concentration, 11BEBS-11BEBEE, spring 2013 term.

1. In the freshman, spring semester, BAE 100 should be dropped. This is being done to keep the curriculum at the 128 credit hour limit.
2. In the sophomore, spring semester, the following changes should be made:
 - a. Instead of being required to take BAE 202 in the sophomore spring semester, students should take BAE 203 and 204. BAE 203 and 204 were recently developed to provide similar content to BAE 202 from an environmental and ecological perspective.
 - b. Instead of allowing students to select between MAE 208 and CE 215, require all students to take MAE 208. This is necessary because CE 215 is no longer taught.
3. In the junior, fall semester the following changes should be made:
 - a. ECE 331 should be replaced with BAE 305. BAE 305 was recently developed to provide similar content from a biological engineering perspective;
 - b. The GEP humanities elective should be removed and added to the senior, fall semester.
4. In the junior, spring semester the following changes should be made:
 - a. BAE 315 should be removed. This course is being eliminated because the majority of its content is covered in other courses. It will be replaced with other engineering content.
 - b. The GEP humanities elective should be removed and added to the senior, fall semester.
 - c. The HES_*** elective should be removed and added to the senior, spring semester.
 - d. BAE 401 should be added here and removed from the senior, spring semester.
5. In the senior, fall semester, BAE 478 should be added. BAE 478 is a newly developed undergraduate version of the course BAE 578. It will serve as the advanced biological engineering course for this concentration

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: x Effective Semester: Spring 2016

Degree/Plan Title: B.S. in Biological Engineering

Concentration/Subplan Title: Environmental Engineering

Plan SIS Code: 11BEBS

Subplan SIS Code: 11BEBEE

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
CH 101 Chemistry, A Molecular Science ^{1B}	3	BAE 100 Intro to Biol. Engr	1
CH 102 General Chemistry Lab ^{1B}	1	CH*** Chemistry Elective ²	4
E 101 Introduction to Engr & Prob Solv ¹	1	MA 241 Calculus II ^{1A}	4
E 115 Intro to Computing Environ	1	PY 205 Physics for Engineers & Scientists I ^{1B}	3
ENG 101 Academic Writing & Research ^{1H}	4	PY 206 Physics for Engineers & Scientists I Lab	1
MA 141 Calculus I ^{1A}	4	EC 205 Economics (GEP Soc Sci Req ^D) ³	3
HES_*** Health & Exercise Studies Course ^E	1		
	<i>Total:15</i>		<i>Total:15</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 200 Comp Meth in Biol Engr	2	BAE 203 Intro to Autocad Civil 3D & ArcMap	2
MAE 206 Engineering Statics or CE 214 Engineering Mechanics-Statics ¹	3	BAE 204 Intro to Eco & Env Engr	2
MA 242 Calculus III	4	MAE 208 Engineering Dynamics ¹	3
PY 208 Physics for Engineers & Scientists II ^B	3	MA 341 Applied Diff Equations	3
PY 209 Physics for Engineers & Scientists II Lab	1	MAE 301 Engr Thermodynamics I	3
BIO 181 Intro BioL: Ecol, Evol & Biodiv ^B or BIO 183 Intro BioL: Cell & Mol Bio ^B	4	SSC 200 Soil Science ^B	3
	<i>Total:17</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 325 Intro Geomatics	3	BAE 401 Instrumentation for Bio Sys	3
BAE 302 Transport Phenomena	3	BAE 472 Irrigation & Drainage	3
BAE 371 Fundamentals of Hydro for Engr	3	MAE 314 Solid Mechanics or	3
CE 382 Hydraulics ¹	3	CE 313 Mechanics of Solids ¹	
BAE 305 BE Circuits	4	ST 370 Prob & Statistics for Engr	3
		Advanced Biology Elective ⁴	3
	<i>Total:16</i>		<i>Total:15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 451 Engr Design I	2	BAE 452 Engr Design II	2
BAE 478 Agricultural Waste Mgmt	3	BAE Elective⁷	3
Engr Elective ⁵	3	GEP Social Science Elective ^D	3
Ethics (GEP Interdisciplinary Persp. Elec. ^G) ⁶	3	GEP Interdisciplinary Persp. Elec. ^G	2
GEP Humanities Requirement^C	3	GEP Additional Breadth Requirement ^F	3
ENG 331 Comm. Engr. & Tech. or	3	GEP Humanities Requirement^C	3
ENG 333 Comm. Sci. & Res.		HES_*** Health & Exercise Studies Course ^E	1
	<i>Total:17</i>		<i>Total:17</i>
Minimum Credit Hours Required for Graduation*: 128			

Major/Program Footnotes:

- ¹ Must be completed with a grade of C- or higher.
² Choose from CH 201 & 202, CH 220 & 222, or CH 221 & 222.
³ Choose from EC 201 or 205, or ARE 201.
⁴ Choose from SSC 332, PB/BIO 360 or PB/BIO 321.
⁵ Choose from BAE 473, 481, or 578.
⁶ Choose from IDS 201, ST 302, or STS 304, which satisfies Interdisc. Perspec. Reqt.
⁷ Choose from BAE 322, 361 and 481.

***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: **MA 141, MA 241***
- B. Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
*Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **CH 101, CH 102, BIO 181, SSC 200, PY 205, PY 206, PY208, PY 209***
- C. Humanities** (6 credit hours selected from two different disciplines/course prefixes)
*Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **None***
- D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
*Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **EC 201, 205 or ARE 201***
- 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)
XHumanities/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: **None***
- H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

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

- I. U.S. Diversity** (USD)
*Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: **None***
- J. Global Knowledge** (GK)
*Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: **None***
- K. Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: x Proposed: Proposed Effective Semester:

Degree/Plan Title: B.S. in Biological Engineering

Concentration/Subplan Title: Environmental Engineering

Plan SIS Code: 11BEBS

Subplan SIS Code: 11BEBEE

New Degree Audit required? (Y or N)

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
CH 101 Chemistry, A Molecular Science ^{1B}	3	BAE 100 Intro to Biol. Engr	1
CH 102 General Chemistry Lab ^{1B}	1	CH*** Chemistry Elective ²	4
E 101 Introduction to Engr & Prob Solv ¹	1	MA 241 Calculus II ^{1A}	4
E 115 Intro to Computing Environ	1	PY 205 Physics for Engineers & Scientists I ^{1B}	3
ENG 101 Academic Writing & Research ^{1H}	4	PY 206 Physics for Engineers & Scientists I Lab	1
MA 141 Calculus I ^{1A}	4	EC 205 Economics (GEP Soc Sci Req ^D) ³	3
HES_*** Health & Exercise Studies Course ^E	1		
	<i>Total:15</i>		<i>Total:16</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 200 Comp Meth in Biol Engr	2	BAE 202 Intro to BAE Methods	4
MAE 206 Engineering Statics or CE 214 Engineering Mechanics-Statics ¹	3	MAE 208 Engineering Dynamics or CE 215 Engr Mechanics-Dynamics ¹	3
MA 242 Calculus III	4	MA 341 Applied Diff Equations	3
PY 208 Physics for Engineers & Scientists II ^B	3	MAE 301 Engr Thermodynamics I	3
PY 209 Physics for Engineers & Scientists II Lab	1	SSC 200 Soil Science ^B	3
BIO 181 Intro BioL: Ecol, Evol & Biodiv ^B or BIO 183 Intro BioL: Cell & Mol Bio ^B	4		
	<i>Total:17</i>		<i>Total:16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 325 Intro Geomatics	3	BAE 315 Prop Biol Eng Materials	3
BAE 302 Transport Phenomena	3	BAE 472 Irrigation & Drainage	3
BAE 371 Land Resources Envir Engr	3	MAE 314 Solid Mechanics or CE 313 Mechanics of Solids ¹	3
MAE 308 Fluid Mechanics or CE 382 Hydraulics ¹	3	ST 370 Prob & Statistics for Engr	3
ECE 331 Princ Elect Engr I	3	Advanced Biology Elective ⁴	3
GEP Humanities Requirement ^C	3	GEP Humanities Requirement ^C	3
	<i>Total:18</i>		<i>Total:18</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BAE 401 Bioinstrumentation	3	BAE 452 Engr Design II	2
BAE 451 Engr Design I	2	BAE 474 Ecological Engineering	3
Engr Elective ⁵	3	GEP Social Science Elective ^D	3
Ethics (GEP Interdisciplinary Persp. Elec. ^G) ⁶	3	GEP Interdisciplinary Persp. Elec. ^G	2
ENG 331 Comm. Engr. & Tech. or ENG 333 Comm. Sci. & Res.	3	GEP Additional Breadth Requirement ^F	3
		HES_*** Health & Exercise Studies Course ^E	1
	<i>Total:14</i>		<i>Total:14</i>
Minimum Credit Hours Required for Graduation*: 128			

Major/Program Footnotes:

- ¹ Must be completed with a grade of C- or higher.
- ² Choose from CH 201 & 202, CH 220, or CH 221 & 222.
- ³ Choose from EC 201 or 205, or ARE 201
- ⁴ Choose from SSC 332, BIO 360 or PB 321
- ⁵ Choose from BAE 473, 481, or 578
- ⁶ Choose from IDS 201, ST 302, or STS 304, which satisfies Interdisc. Perspec. Reqt.

*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: **MA 141, MA 241***
- B. Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
*Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **CH 101, CH 102, BIO 181, SSC 200, PY 205, PY 206, PY208, PY 209***
- C. Humanities** (6 credit hours selected from two different disciplines/course prefixes)
*Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **None***
- D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
*Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **EC 201, 205 or ARE 201***
- 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: **None***
- H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better)

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

- I. U.S. Diversity** (USD)
*Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course list as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: **None***
- J. Global Knowledge** (GK)
*Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement: **None***
- K. Foreign Language proficiency** - Proficiency at the FL_102 level is required for graduation.

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> B.S. in Biological Engineering	<u>Plan SIS Code:</u> 11BEBS
<u>Concentration/Subplan Title:</u> Environmental Engineering	<u>Subplan SIS Code:</u> 11BEBEE
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> Spring 2016
<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 141, MA 241, MA 242, MA 341	15	Mathematics (6 hours)
ST 370	3	
<u>Sciences</u> CH 101, CH 102, PY 205, PY 206, PY 208, PY 209, BIO 181, SSC 200	19	Natural Sciences (8 hours)
CH 201 & 202, CH 220 & 222, CH 221 & 222	4	
<u>Advanced Biology Elective</u> MB 351, SSC 332, HS 462	3	
<u>Economics Elective</u> EC 201, EC 205 or ARE 201	3	Social Sciences (3 hours)
<u>Major Courses</u> BAE 200, BAE 203, BAE 204, BAE 302, BAE 305, BAE 401, BAE 451, BAE 452	20	
MAE 201	3	
MAE 206 or CE 214	3	
MAE 208	3	
CE 382	3	
MAE 214 or CE 313	3	
<u>BAE Elective</u> BAE 322, BAE 361, BAE 481	3	
<u>Ethics Elective</u> IDS 201, STS 302, STS 304	3	Interdisciplinary Perspectives (3 hours)
<u>Communications Elective</u> ENG 331, ENG 333	3	
<u>Concentration Courses/Groups/Electives:</u> BAE 325, BAE 371, BAE 472, BAE 478	12	
<u>Free Electives:</u>		

Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	103 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): E 101, E 115	2	
Other: ENG 331 or 333	3	Satisfies Communications in the Major GEP co-requisite
Total credit hours under College Requirements:	5	

<u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u>		At least one of the following must be listed:
<p><i>Courses in the Major and/or Minor may also fulfill a General Education requirement; however, a GEP category may not be subset to require a specific course from the category list. Required courses must be listed in the Major/College requirements.</i></p> <p><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></p>		<ol style="list-style-type: none"> Choose course(s) from the University Approved GEP course list for this category. Minimum requirements are satisfied by Major/College course requirements. Major/College course requirement satisfies X credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category. Co-requisite is satisfied by a Major/College course requirement. Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts. Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.
General Education Program Requirements: <i>Minimum 39-40 hrs</i>	Credit hours	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)
Mathematical Sciences (6 credits) <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 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 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 lists for the Humanities.
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>	3	<i>(Choose statement 1, 2 or 3)</i> Major course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
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 lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
Interdisciplinary Perspectives (5 credits) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	2	<i>(Choose statement 1, 2 or 3)</i> Major course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
Health and Exercise Studies (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>
Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.	20 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	<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.		128 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

SIGNATURE PAGE

CURRICULA ACTION FOR 16FLLBA 16FLL ED

RECOMMENDED BY:



HEAD, DEPARTMENT/PROGRAM

29 Mar 2017

DATE

ENDORSED BY:



CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE

April 11, 2017

DATE



COLLEGE DEAN

4/12/17

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 _____

To: UCCC

From: Ruth Gross, Dept. Head, FLL and Karen Tharrington, Program Coordinator for French/Spanish, FLL

Re: Addition of German language option to Foreign Language Education Concentration (FLL-ED)

After the Faculty of the Department of Foreign Languages and Literatures voted to consolidate its three separate majors (SIS and CIP codes) into one single major plan three years ago, the separate Spanish and French Teacher Education majors were eventually consolidated to one subplan last year, Foreign Language Education, which gave students the option to pursue a teaching certificate in either French or Spanish. At this point, there is student interest for adding German to the language options for the 16FLLBA-16FLLBA concentration subplan. The concentration 16FLLBA-16FLLBA codes will remain the same.

The revision to the 16FLLBA – 16FLLBA concentration consists of adding German (FLG) language course options under the original Spanish and French ones. The FLG courses are in line with the FLL major and are consistent with the Spanish and French language requirements. An additional line of information has been added to Format A, footnote 6 indicating that FLG students are required to study abroad.

We foresee no major impact on current students, as the major concentrations, H&SS, Core Professional Education, and GEP courses will maintain the core requirements they had under their individual concentrations. We have received clearance from the College of Education (see email from Michael Maher, Assistant Dean for Professional Education and Accreditation) and the North Carolina Department of Public Instruction to offer German as a k-12 certification, which will make the college and university more marketable for those wishing to pursue a career in teaching languages. We have consulted with Helga Braunbeck, section coordinator for German Studies, and together developed an list of FLG core content courses (see attachment email). Including German language options for FLLBA will require no additional staff or place a burden on the department facilities.

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

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

Degree/Plan Title: Foreign Languages and Literatures Concentration/Subplan Title: Foreign Language Education

Plan SIS Code: 16FLBBA Subplan SIS Code: 16FLLED

New Degree Audit required? (Y or N) N

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
ENG 101 Academic Writing & Research ^F	4	FLx 202 Language Core ⁴	3
FLx 201 Language Core ⁴	3	History II ¹	3
History I ¹	3	GEP Mathematical Sciences ^A	3
GEP Mathematical Sciences ^A	3	Free Elective	3
Social Science ³	3	Philosophy	3
Health and Exercise Studies ^C	1	Health and Exercise Studies ^C	1
	<i>Total: 17</i>		<i>Total: 16</i>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FLx Language Content	3	FLx Language Content	3
FLx Language Content	3	FLx Literature I ²	3
GEP Natural Science with lab ^B	4	GEP Natural Science ^B	3
ED 204 Introduction to 21 st Century Teaching ⁷	2	Arts & Letters	3
ECI 204 Introduction to Teaching ⁷	1	Social Science ³	3
Free Elective	3	ED/FL 299 Field Work ⁷	1
	<i>Total: 16</i>		<i>Total: 16</i>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
FLx Literature II ²	3	FLx Language Content	3
GEP Additional Breadth: Math/Natural Sci ^D	3	GEP Interdisciplinary Perspectives ^E	2-3
EDP 304 Educational Psychology ^{3,7}	3	ELP 344 School and Society ⁷	3
FL Advised Elective	3	FL Advised Elective	3
GEP Interdisciplinary Perspectives ^E	3	Social Science ³	3
	<i>Total: 15</i>		<i>Total: 14-15</i>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ECI 423 Foreign Language Methods Course ^{7,8}	5	ECI 424 Student Teaching in Modern Foreign Languages ^{7,8}	12
FLx 492 Senior Seminar	3		
FL Advised Elective	3		
ED 311 Classroom Assessment ⁷	2		
ED 312 Classroom Assessment Learning Lab ⁷	1		
Free Elective	3		
	<i>Total: 17</i>		<i>Total: 12</i>
Minimum Credit Hours Required for Graduation: 123 ^{5,6, H, I}			

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

- History I and II** (6 credit hours selected from two groups: History I and History II)
GRP 501 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)
- GRP 502 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 and II** (6 credit hours are met with FLL ED major Literature I and II courses)
4. **Social Sciences** (Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list) *Choose from the College approved Social Sciences course list or the following course(s) if completed as part of the Major requirements that may fulfill part or all of this requirement: EDP 304.*
5. **Foreign Language** (FL 200 level Requirement)
Completion of FLx 201 or 202 satisfy the CHASS FL 200 level requirement. All students must take the NC State Placement test upon entering CHASS. FLx 101 and 102 are not for graduation credits, unless they are for languages other than the major.
6. All Education students must pass the Praxis II Subject Area tests.
7. **Study Abroad/Internship Abroad**
It is strongly recommended that students participate in at least one study abroad experience to a Spanish-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 regular coursework. FLG students are required to study abroad no later than the Junior Year.
8. **Professional Education Component:** A grade of **C** or above is required for these courses. ED/FL 299 field work is taken the semester after Introduction to 21st Century Teaching (ED 204 and ECI 204).
9. **Admission to Candidacy and Professional Year**
All FLL Education candidates must be admitted to candidacy by the beginning of the fall semester of Methods Course. All required coursework should be completed prior to student teaching.

***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
- 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
- C. **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.
- 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 or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- 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.

CURRICULUM REQUIREMENTS

Format B

<u>Degree/Plan Title:</u> Bachelor of Arts in Foreign Languages and Literatures	<u>Plan SIS Code:</u> 16FLLBA
<u>Concentration/Subplan Title:</u> Foreign Language Education	<u>Subplan SIS Code:</u> 16FLLLED
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2177
<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:	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
<i>Minimum Grade Points Required 2.00</i>		
<u>Departmental Language Core</u>	3	
Intermediate Language 201 – FLF 201, FLG 201 , FLS 201	3	
Intermediate Language 202 – FLF 202, FLG 202 , FLS 202		
Language & Culture Core	12	
Choose from:		
<i>French:</i> FL 295, 395, FLF 308, 309, 310, 315		
<i>German :</i> FLG 499 (3 cr)		
Choose 9 credits from FLG 301, 302, 307, 311, 315, 318, 390, 398		
<i>Spanish:</i> FLS 331, 332, 333, 335, 360, 395		
Literature I	3	
<i>French:</i> FLF 302		
<i>German:</i> FLG 320		
<i>Spanish:</i> FLS 340, 341, 342, 351, 352		
Literature II	3	
<i>French:</i> FLF 301		
<i>German:</i> FLG 323, 325		
<i>Spanish:</i> FLS 343, 353, 395		
Foreign Language 492 Seminar	3	
<i>French:</i> FLF 492		
<i>German:</i> FLG 492		
<i>Spanish:</i> FLS 492		
<u>Concentration Courses/Groups/Electives:</u>		
<i>Minimum Grade Points Required 2.00</i>		
<u>Education Concentration</u>	3	
Advised Elective		
<i>French:</i> FL 495, 498, 595, FLF 306, 307, 318, 321, 401, 411, 414, 424, 425, 492		
<i>German:</i> FLG 311, 315, 318, 323, 325, 390, 398		
<i>Spanish:</i> FLS 331, 332, 333, 335, 340, 341, 342, 343, 351, 352, 353, 360, 395, 400, 402, 405, 411, 412, 413, 495		

<p>400 level Advised Elective French: FL 495, 498, 595, FLF 306, 307, 318, 321, 401, 411, 414, 425, 492 German: FLG 420, 430, 440 Spanish: FLS 400, 401, 402, 405, 411, 412, 413, 492, 495</p>	3	
<p>Additional Advised Elective COM 112, ECI 201, 305, 427, 505, 506, 527, ED 299, FL 216, 222, 295, 298, 299, 395, 424, 427, 439, 440, 492, 495, 498, 505, 506, 507, 508, 524, 527, 595, PSY 376</p>	3	
<p>Professional Education Minimum Grade Points Required 2.0</p> <p>EDP 304 Educational Psychology ELP 344 School and Society ED 204 Intro to 21st Century Teaching ECI 204 Intro to Teaching ED 311 Classroom Assessment ED 312 Class Assessment Learning Lab FL 299 Field Exp Teach ECI 423: Methods & Materials ECI 424 Student Teac Fr/SP</p>	3 3 2 1 2 1 1 5 12	
<p>Free Electives: (12 Hr S/U Lmt) 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>	9	
<p>Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i></p>	75	
COLLEGE REQUIREMENTS:		
Orientation Course(s):		
<p>Other: GRP 501 History I - 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 or 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276</p>	3	Humanities (3)
<p>GRP 502 History II - 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, 210, 221, 222, 251, 252, 253, 254</p>	3	
<p>GRP 511 Philosophy - Any PHI course on the approved GEP-Humanities list PHI 205, 210, 214, 221, 300, 301, 302, 305, 309, 310, 312, 313, 325, 330, 331, 332, 333, 340, 375, 376, 401, 420, 425, 440, 447, PSY 425, STS 325</p>	3	Humanities (3)
<p>GRP 512 Arts and Letters – 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,</p>	3	

<p>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 203, 233, 303, 323, 334, 340, WGS 472, 473</p> <p>GRPs 541 & 542 Social Science: Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list</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, 424, 427, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, FLJ 351, 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, 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, 337, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 452, 474, 480, 490, 491, 495, 498</p> <p>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</p> <p>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, 430, 431, 436, 470, 475, 491, 495, 498, 499, , WGS 406</p> <p>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</p> <p>Multidisciplinary – ENG 210, GEO 220, SOC 220, STS 402</p>	12	Social Science (6)
<p>Total credit hours under College Requirements:</p>	21	

<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: Minimum 39-40 hrs</p>	Credit hours	<p><i>How will the GEP requirement be met?</i> (Choose applicable statement from 1-6 listed above)</p>
<p>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></p>	6	<p>(Choose statement 1, 2 or 3)</p> <p>Choose course(s) from the University Approved GEP course list for this category.</p>
<p>Natural Sciences (7 credits)</p>	7	<p>(Choose statement 1, 2 or 3)</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)	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	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

NC STATEKaren Tharrington <kltharri@ncsu.edu>**Re: German and FLL ED**

1 message

Helga Braunbeck <hgb@ncsu.edu>
To: Karen Tharrington <kltharri@ncsu.edu>
Cc: Ruth Gross <rvgross@ncsu.edu>

Wed, Apr 27, 2016 at 10:46 AM

Hi, Karen,

thanks much for these explanations, very helpful. As for the field work in schools, I'm glad it falls into sophomore and senior years; but it would then need to be stressed during advising that students develop firm plans for SA in their junior year (or a summer internship in other years). As you know, planning for SA happens about a year ahead of the intended semester abroad.

I am attaching what I think could be the final version of the German track. I've added quite a few courses to the additional advised elective: ARS 252 - which is a course taught in Vienna every year, COM 392 (which I thought might be helpful, but you can vote this down), some more FL courses focused on teaching, and two history courses, HI 332 and 418.

The ARS and HI courses are already part of our other German Studies curricula; and the enrollment effect on COM 392 would be close to zero, given the small number of students taking this concentration and the many choices they have for the advised elective (this info may be good for Dudley to have if he needs to defend this on the college undergraduate committee, in terms of the "consultation").

And as for advising: I think it would be useful to do co-advising, is that how you do it for students in the education concentration?

Thanks again and let me know how this progresses.

Best,
Helga

On Mon, Apr 25, 2016 at 3:50 PM, Karen Tharrington <kltharri@ncsu.edu> wrote:

Hi Helga and Ruth,

Thank you for the FLG 499 explanation - that makes sense now. The proposed options for FLx 202, the 12 credits for Language and Culture Core, and Lit II are exactly the info I needed, so thank you. It is absolutely not a problem to offer the choices as you have them listed.

In addition, the choices for the Advised Elective FLG 3** and FLG 4** will work well too. I agree that it also makes sense to parallel the French/Spanish of 9 hours of free electives.

To answer your specific questions:

1. The "Additional Advised Elective" list can be added to. The goal for this requirement is to choose courses that will be helpful for a future teacher, such as the ones listed or can help them meet other university requirements. Anything you wish to add to that list, from FLG or another department (i.e. history), is fine. Spanish and French majors have the option of taking other languages, for example. Just let me know what should be included there.

2. German Studies Ed students would take the 30 hours of pedagogy courses, including the two FLL specific courses (ECI 204 and ECI 423) and student teaching practicum (ECI 424). Those are included in the Professional Education 30 hours.

3. I would do any memos or CAFs necessary to include German. The FLL ED curriculum was rewritten to be as flexible to change as possible, in the hopes of adding new languages in the future.

4. The structure of this curriculum be able to accommodate a full semester abroad, with fall or spring of junior year being the ideal time, as they spend their sophomore and senior year doing field work in K-12 schools.

Karen

Karen Tharrington, MA, NBCT
Senior Lecturer | Program Coordinator and Advisor for Foreign Language Education
PhD Student | Digital Learning and Teaching

<http://kltharri.weebly.com/>

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NC STATE

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On Mon, Apr 25, 2016 at 3:06 PM, Helga Braunbeck <hgb@ncsu.edu> wrote:

Hi, Karen,

thanks. What I meant with the metaphor of pouring is the fact that the structure into which the courses go is fixed, and was created based on the French and Spanish curricula since at the time a German Studies curriculum did not exist. It now does and has a different structure. I did study the FLL Education curriculum in order to understand what you had sent me.

As for FLG 499: it is a placeholder for the study abroad / internship abroad requirement; there is no other way to get this requirement listed in NC State curricula (since nobody really looks at the footnotes of semester-to-semester displays - at least not students who plan based on their degree audit). So, if a student has done study abroad, we hand-move one of the TR courses into that spot. For the students who do an internship, we give FLG 499 credit. Most students take the internship for 6 credits, although 3 or are ok, so that is what is listed. If they take FLG 499 for 6 credits, we deal with it, again, with hand-moves, in essence allowing them to replace another FLG course with the

additional 3 credits. Most of our students do study abroad, although the number of internship students is increasing (many engineering double majors do this, and some others).

I just worked on the curriculum again and am attaching my suggestions. I put the FLG 499 as a required course in the core, I think that should work best since we need for that to stay at 12 credits total. We have some either/or choices that French and Spanish don't seem to have (FLG 202 OR 212, or a choice of two for Lit II); it's crucial to keep these choices since, e.g., we offer FLG 323 and 325 in alternating years and our FLG 212 is the same level as 202.

Since the Spanish and French options have 9 free electives, I made that parallel.

Four questions for you:

1. Is the "Additional Advised Elective" prescribed, i.e. does it have to be a choice of COM/ECI/PSY courses?
2. Would it make sense for a German Studies Ed. major to take one of the seminars that FLL is offering on foreign language pedagogy for French and Spanish? I'd consider that more useful than the courses listed for the Additional Advised Elective.
3. Would you do a CAF to change ECI 424 to include German Studies?
4. Would the structure of this curriculum be able to accommodate a full semester abroad, e.g. spring of junior year? What restrictions might there be for students who need to fulfil their Education requirements such as their fieldwork in high schools?

Let me know your thoughts on these and on the attached suggested curriculum and thanks for working to include German Studies.

And by the way: it would have never occurred to me to see this curriculum as competing with our existing German Studies concentrations. I've published on the benefits of collaboration (rather than competition) between curricula (in that case between German Studies and International Studies, both of which I was leading at the time).

Thanks again.
Helga

On Fri, Apr 22, 2016 at 5:31 PM, Karen Tharrington <kllharri@ncsu.edu> wrote:
Helga and Ruth,

The FLL ED curriculum follows one major curriculum plan of study (16FLLBA-FLLED) but the difference is the list of courses from which the students would choose. So for example, Spanish students choose from a distinct list of FLS courses for the "Language Core" while the French ones choose from a list of French courses; they are similar but not equivalent. It's not so much "pouring German into Spanish/French" as it is adding options for German language study. What I would need from the German section is a list of courses they free would satisfy the FLx Language and Core, FLx Lit I and Lit II, FLx 300 level advised electives, and FLx 400 level advised electives, etc.

There is not much flexibility in the number of hours, as these are major curriculum requirements for all students. I recognize and appreciate the interdisciplinary nature of the German Studies

concentration, and would like to keep as many as possible without overloading students. But we must also keep in mind that they are getting two majors - the certification piece is 30 hours. However, if you could help me understand the 499 (it is listed online as 1-12 hours so I was a bit confused as to its role in the concentration), then perhaps we could situate it a little better. I did list it as required though, in the Advised Electives (which are required courses, but are called electives, for lack of a better term at the time of the CAF). Also, I welcome any comments from the German section about what is truly important for any German major and to see how we can incorporate as much as possible into the concentration.

You would also have control over course replacements. I look to your section as the experts on which courses are of utmost importance to a German concentration and what is offered and when. Having a co-advisor in the German section would be beneficial so that we can work together to ensure there are no misunderstandings.

All students are encouraged to study abroad, regardless of their language. If we make it a requirement for German, we would fit it into the Language and Core and/or Literature piece, depending on what the offerings are. If they transfer back as FLG 398, it's not a problem to have that listed in multiple areas, as we do that already for FLS 395 and FLF 395.

Please know that my goal is not to take away students from the current concentrations, but to enhance our program for those who might be interested. I feel very strongly about access to all languages, and was responsible for bringing German to Wakefield HS, a program that is still going very strong 10 years later. Since NC certifies German K-12 and there are local schools for the student teaching practicum, I feel like this is a win-win for all.

Karen

Karen Tharrington, MA, NBCT
Senior Lecturer | Program Coordinator and Advisor for Foreign Language Education
PhD Student | Digital Learning and Teaching

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NC STATE

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On Fri, Apr 22, 2016 at 5:09 PM, Helga Braunbeck <hgb@ncsu.edu> wrote:
Hi, Karen and Ruth,

I finally had the time to look at this in more detail. I thought at first I should create a German Studies Education Curriculum. Then I re-read your and Ruth's email and now it seems you just want to "add" courses to the curriculum that was created for Spanish and French (which are not interdisciplinary majors), is that so? I.e. pour German into the Spanish/French structure?

What you created doesn't quite work for German Studies. We are a small section with fewer iterations of specific courses and thus we need a lot more flexibility in order to make it realistic for the students to actually finish the curriculum. And we have 400 level courses which are lacking French and Spanish, and a mandatory study abroad / internship. And our other curricula include classes in other departments, which we are giving up in this one, it seems.

How much flexibility is there? E.g. I'd like to reduce the "language and culture" core to 9 cr and move the FLG 499 up since it's a requirement, not an elective. Could it be included in the core, but not as a choice, and rather as a requirement?

I would also need to list several courses in several groups, which is how the German Studies curriculum functions. And LIT II needs to have a choice of either FLG 323 or 325.

Would we still retain control over course replacements if needed (often an issue when our students take several FLG 398 courses abroad because we have no precise equivalent)?

Let me know what you think about these issues.

Best,
Helga

On Mon, Apr 11, 2016 at 1:45 PM, Karen Tharrington <kltharri@ncsu.edu> wrote:

Helga,

A student has requested to add the FLL ED major for German Education Studies. I spoke to Ruth about it during my end of year review, and am attaching a document of possible courses she would follow that would be in line with the French and Spanish pathway, which I also shared with Ruth. If you and she could get together to discuss, I'd like to get the student on track for the fall, since she plans to study abroad her Junior year and there are gateway courses she needs for this coming fall.

Thanks,
Karen

Karen Tharrington, MA, NBCT
Senior Lecturer | Program Coordinator and Advisor for Foreign Language Education
PhD Student | Digital Learning and Teaching

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--

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German_Studies_Education_Concentration.docx
15K

NC STATE

Karen Tharrington <kltharri@ncsu.edu>

German

1 message

Michael Maher <michael_maher@ncsu.edu>
To: Karen Tharrington <kltharri@ncsu.edu>

Tue, Jun 21, 2016 at 10:56 AM

is being added to our approved offerings.

Michael

--

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NC STATE

Memorandum

To: UCCC

From: Amanda Ross Edwards, Director, Leadership in the Public Sector

Date: 10/3/2016

RE: Adding Electives to LPS Curriculum 16LPSBA

This memo requests a minor action change to the LPS curricula attached. Five curriculum elective course options to be added to the LPS curriculum. The reason for each of the course additions is as follows:

LPS 302, Diversity and Leadership in the Public Sector

This course will be offered every fall. It was approved by UCCC last year and satisfies the GEP diversity requirement. Dr. Tracy Appling and I created this course for both programmatic and curricular reasons. It is important for public sector leaders to have knowledge of diversity issues and understanding of cultural competency. We would like to now add this course formally to the LPS curriculum as a 300 elective course option for LPS majors.

PS 203 Introduction to Non Profits

The lack of a course in non-profits for our majors has been a recognized gap in our curriculum offering for several years. As part of the School of Public and International Affairs, the ideal situation was to have our school departments work together. This year the non-profit minor is redesigning their PS203 course and LPS and NPS have been working together to develop the online offering. This course will also be taught online frequently by PA PhD students, funded by LPS. PS203 should be added to the LPS curriculum as a 200-level elective for both curricular and programmatic reasons, but also because it allows for continuing HSS objectives to have undergraduate and graduate programs within SPIA support each other.

HI 254, Modern American History

This course will be offered in summer 1. It came to my attention from the LPS advisor a year and a half ago that many LPS majors needed a history II to graduate but there were none offered online consistently. I, subsequently, made arrangements with David Zonderman to offer this course as a 601 section once a year. HI 254 would be added to the LPS curriculum as a 200-level elective for LPS majors to ensure that LPS students can fulfill this degree requirement towards graduation.

HI 335, The World at War, and HI 337, Spy vs. Spy: Cold War Intelligence History

Both of these history classes would be added as 300-level curriculum elective options for LPS majors. HI 337 will be offered in the fall and HI335 will be offered in the spring. These courses would be added for curricular and programmatic reasons. A large part of our student population has ties to the military as either active duty, veteran or family. We also have students that are interested in work related to government relations and public affairs. For curricular reasons, the course content ties well to the interests of our students if they are interested in military or government affairs. Also, our students need to complete three Social

Science courses in order to graduate. We offer a psychology and a philosophy course as part of our curriculum; I believe these history courses would provide other options that also fit with student interests.

This does not impact the history department negatively as we have a Memorandum of Understanding (Attached), which provides funding support for the 601 section of the course. LPS reserves a set number of seats and any other seats are left for history and other majors.

Effective date for this revision: January 1, 2017.

**MEMORANDUM OF UNDERSTANDING
2016-2017**

Leadership in the Public Sector Curriculum

School of Public and International Affairs (SPIA)

And

The Department of History

The School of Public and International Affairs (SPIA) and Department of History enter into this agreement for the purpose of providing courses outside of the Department of Political Science that are included in the core curriculum of the undergraduate degree completion program Leadership in the Public Sector.

The Department of History agrees to list HI 335 601, HI 337 and HI 254 601 as part of the LPS curriculum. The course(s) will retain the course prefix and number of the originating Department. The courses will be offered according to the schedule and enrollment ceilings determined prior to the start of each fiscal year by the Department of History and SPIA. Priority registration will be given to LPS students, with SPIA providing the estimated number of LPS enrollments in the course(s) prior to the start of the registration cycle. The remaining course spaces are available to matriculated and NDS students, with enrollment access assigned by total hours passed in each registration cycle. The Department of History retains full responsibility and authority for the hire and evaluation of faculty who teach these courses. It is also the responsibility of the department to negotiate payment, gain HR approval and pay the instructors and any teaching assistants. Additional courses or other changes in scheduling will be jointly determined by SPIA and the Department of History prior to the start of each year.

SPIA agrees to support the course(s) from the Department of History based upon the agreed upon enrollment cap.

For the 2016 fiscal year, SPIA will transfer \$16,500 for the administration of the following courses.

Fall 2016: HI 337 601 20 seats = \$5,500
Spring 2017: HI 335 601 20 seats = \$5,500
Summer 1 2017: HI 254 601 20 seats = \$5,500

LPS will reserve 5 seats in HI 254 601, 7 seats in HI335 601 and 7 seats in HI 337 to be released after LPS students and NDS have completed their enrollment period.



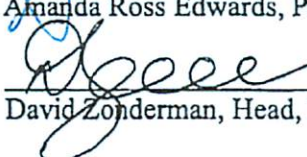
If the department is not able to offer the course for any reason, then the allocation will be returned to SPIA. No additional allocation will be provided by SPIA if the department enrolls over the cap, but the department will receive the full allocation even if the cap is not met.

The allocation is for the entire fiscal year. This includes the 2nd summer session in July as well as the 2nd half of a 10 week session, Fall and Spring Semesters, as well as the first summer session in June and the first half of the 10 week session.

DELTA's Distance Education support services will be available for the Department of History course(s), including campus-based exam proctoring and remote testing arrangements, course update support, textbook ordering, and other faculty requests.

The terms of this agreement will be renegotiated by April 1 prior to the beginning of each fiscal year by SPIA and the Department of History. SPIA or the Department of History can terminate this agreement with one year's notice of such intent.

Entered into this 24th day of June, 2016.

	<u>7/22/16</u>
Richard M. Mahoney, Director, Public and International Affairs	Date
	<u>7/18/16</u>
Amanda Ross Edwards, Program Director, Leadership in the Public Sector	Date
	<u>6/24/16</u>
David Zonderman, Head, Department of History	Date

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: Spring 2017

Degree/Plan Title: BA/Leadership in the Public Sector Concentration/Subplan Title: Leadership in the Public Sector - DE

Plan SIS Code: 16LPSBA Subplan SIS Code: 16LPSBAZ

New Degree Audit required? (Y or N) N

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 ¹³			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 101 Acad. Writing ^{9,H}	4	Social Science ^{8,D}	3
Social Science ^{8,D}	3	History I ^{3,C}	3
Arts & Letters Elective ⁷	3	Natural Science w/ Lab ^B	4
Mathematics ^A	3	Literature I ¹	3
Free Elective ⁹	3	Philosophy ^{6,C}	3
<i>Total: 16</i>		<i>Total: 16</i>	
SOPHOMORE YEAR ¹³			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
Natural Science ^B	3	Social Science ^{8,D}	3
Mathematics ^A	3	Literature II ²	3
Social Science ^{8,D}	3	Free Elective ⁹	3
Free Elective ⁹	3	History II ^{4,C}	3
HES_1** Health & Exercise Studies Course ^E	1	Additional Breath (Math Sci/Nat Sci/Eng) ^F	3
		HES_*** Health & Exercise Studies Course ^E	1
<i>Total: 16</i>		<i>Total: 16</i>	
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
LPS 200 Intro. to Public Leadership	3	LPS 315 Public Leadership	3
200 level major elective course ¹⁰	6	300 level major elective course ¹¹	6
Interdisciplinary Perspective ^G	3	Interdisciplinary Perspective ^G	2-3
Free Electives ⁹	3	Free Electives ⁹	3
<i>Total: 15</i>		<i>Total: 14-15</i>	
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
LPS 320 Research Methodology for the Public Sector	3	LPS 425 Leadership Capstone	3
400 level major elective course ¹²	3	Free Electives ⁹	11
Foreign Language 201 ^{5,K}	3		
Free Electives ⁹	6		
<i>Total: 15</i>		<i>Total: 14</i>	
<i>Minimum Credit Hours Required for Graduation : 122 ^{I, J, K, 13}</i>			

Major/Program Footnotes:

- Literature I.** One 3-credit course required from the College approved Literature I list (a survey course covering literature outside the U.S. and prior to the 20th century)
- Literature II.** One 3-credit 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)
- 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., pre-industrial 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)

5. **Foreign Language.** Proficiency at the 201 level is required by the College of Humanities and Social Sciences. Please note FL 101, pre-requisite for FL 102, does not count towards degree requirements.
6. **Philosophy.** Choose one 3-credit PHI course from the approved GEP Humanities list.
7. **Arts and Letters.** Choose one three-credit course from the College approved Arts and Letters list.
8. **Social Sciences.** Four 3-credit courses from at least three of the following areas: ANT, ARE, EC, PS, PSYCH, Soc. Also ENG 210, GEO 220, IDS 401, or STS 402. 12 credits total. Choose 6 hours from the GEP Social Sciences list.
9. **Free Electives.** Thirty-two credit hours. Electives may be chosen from any university courses for which the student qualifies, excluding FLx 101, GRK 101, LAT 101, MA 101 and PER 101. Twelve credit hours of S/U grading allowed.
10. **200 Level Major Electives.** Students in LPS must take three courses (9 credit hours) from among the following LPS major electives: **add HI 254**, IDS 201, LPS 201, 202, 205, PER 201 (may satisfy college foreign language requirement or LPS major elective, but not both), 202, PHI 221, 250, PS 201, 202 and **add [PS] 203**
11. **300 Level Major Electives.** Students in LPS must take two courses (6 credit hours) from among the following LPS major electives: **add HI 335, [HI] 337, LPS 302**, PA 311, 332, PS 301, 303, 305, 310, 312, 314, 331, PSY 307, STS 302, and 322.
12. **300 or 400 Level Major Elective.** Students in LPS must take one course (3 credit hours) from among 300 level LPS major electives or from among the following 400 level LPS major elective courses: HI 453, LPS 400, 490, PA 420, PS 415, 432, 437, SOC 432, STS 402.
13. LPS is an online degree completion program for non-traditional students, and cannot accept traditional students who are currently enrolled in a regular degree program. Incoming students may transfer a maximum of 72 credit hours of college course work. Transfer credit should include a sufficient number of courses to satisfy the general education component of the major. In addition, transfer students must have taken and passed a college level Math course and a college level English course comparable to our ENGL 101 (4 hrs.).

***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: **Six hours completed as part of the major's History 1 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: **Six hours completed as part of the major's Social Science 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:

- 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:
- 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/Leadership in the Public Sector	<u>Plan SIS Code:</u> 16LPSBA
<u>Concentration/Subplan Title:</u> Leadership in the Public Sector-DE	<u>Subplan SIS Code:</u> 16LPSBAZ
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> 2171
<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. <i>(MGPA must be 2.0 or higher) C-wall</i>		List GEP category and hours satisfied by a Major requirement
LPS 200 – Intro Public Leadership	3.0	
LPS 315 – Public Leadership	3.0	
LPS 320 – Research Methods Public Sector	3.0	
LPS 425 – Leadership in the Public & Nonprofit Sectors Capstone	3.0	
200 Level Elective Courses (GRP030) – IDS 201, HI 254, LPS 201, 202, 205, PER 201, 202, PHI 221, 250, PS 201, 202, 203	9.0	
300 Level Electives Courses (GRP032) – HI 335, 337, LPS 302, PA 311, 332, PS 301, 303, 305, 310, 312, 314, 331, PSY 307, STS 302, 322	6.0	
300 or 400 Level Electives (GRP034) – HI 453, LPS 400, 490, PA 420, PS 415, 432, 437, SOC 432, STS 402; HI 335, 337, LPS 302, PA 311, 332, PS 301, 303, 305, 310, 312, 314, 331, PSY 307, STS 302, 322	3.0	
<u>Concentration Courses/Groups/Electives:</u>		
<u>Free Electives: (12 Hr S/U Limit)</u> 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	32	

Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	62	
COLLEGE REQUIREMENTS:		
Orientation Course(s):		
Other:		
GRP 501 History I - 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 or 276, HI 207, 214, 215, 216, 232, 233, 263, 264, 270, 275, 276	3	Humanities (3)
GRP 502 History II - 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, 210, 221, 222, 251, 252, 253, 254	3	
GRP 503 Literature I - 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, 261 or 262 (but not both), FL 219, 220, 221, or 222, FLF 301, FLG 320, 325, FLJ 342, 344, FLR 303, FLS 340, 341, 342, 351, HON 202 Inquiry, Discovery and Literature, HON 293 Honors Special Topics-Literature	3	
GRP 504 Literature II - 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, 305, 349, 362, 363, 369, 370, 371, 372, 373, 376, 377, 380, 382, 385, 390, 392, 393, 394, 398, 399, 406, 407, 420, 439, 448, 449, 451, 452, 452, 460, 462, 463, 464, 465, 468, 469, 470, 471, 476, 486, 487, FL 219, 220, 223, 224, 246, 392, 393, 394, 406, 407, FLN 301, 302, 401, WGS 305 List B - ENG 219, 220, 221, 223, 224, 246, 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 Inquiry, Discovery and Literature, HON 293 Honors Special Topics-Literature	3	
GRP 509 Foreign Language 201 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	3	
GRP 511 Philosophy - Any PHI course on the approved GEP-Humanities list PHI 205, 210, 214, 221, 300, 301, 302, 305, 309, 310, 312, 313, 325, 330, 331, 332, 333, 340, 375, 376, 401, 420, 425, 440, 447, PSY 425, STS 325	3	Humanities (3)

<p>GRP 512 Arts and Letters – 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 203, 233, 303, 323, 334, 340, WGS 360, 472, 473</p>	<p>3</p>	
<p>GRP 509 Foreign Language: 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>GRPs 541 & 542 Social Science: Twelve (12) credit hours required from three different disciplines, six (6) must be on GEP-Social Sciences list</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, 424, 427, 431, 433, 444, 450, 460, 464, 475, 483, 495, 496, 498, FLJ 351, 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, 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, 337, 348, 351, 377, 404, 410, 413, 431, 436, 437, 449, 451, 452, 474, 480, 490, 491, 495, 498</p> <p>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</p> <p>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, 430, 431, 436, 470, 475, 491, 495, 498, 499, , WGS 406</p> <p>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</p> <p>Multidisciplinary – ENG 210, GEO 220, SOC 220, STS 402</p>	<p>12</p>	<p>Social Sciences (6 cr)</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 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:</p>	<p><i>Credit</i> <i>How will the GEP requirement be met?</i></p>

Minimum 39-40 hrs	hours	(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.	6	1 (Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
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.	7	2 (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) 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.	0	3 (Choose statement 1, 2 or 3) Major/College course requirement satisfies 6 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the 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.	0	4 (Choose statement 1, 2 or 3) Major/College course requirement satisfies 6 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the 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 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	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 <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.	122	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

NC STATE UNIVERSITY

TO: Office of the Dean for Academic and Student Affairs

FROM: Betty Gardner, Director Undergraduate Genetics Program

RE: Updates to the 17GNBS curriculum

DATE: 31 March 2017

Proposed effective date: June 1, 2017

Proposed changes and justification

The Genetics Program proposes several minor action changes to the BS Genetics major. This action updates the Genetics major to

1. Restructure the degree audit to clarify course categories and to clearly identify the current requirement for Genetics Research/Teaching by placing it in a separate category.
2. Update course offerings due to recent revisions in Biological Sciences and Genetics courses and the degree audit, and to add additional Restricted Electives to provide a broader selection of courses for our majors.

The 8 semester display on Format A and the Curriculum Requirements on Format B have been updated to reflect these changes and to correct minor typographical errors.

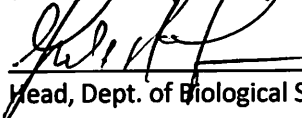
Restructuring the Degree Audit: The current "GN Restricted Electives" and "Restricted Elective" categories are confusing since each has the word "Restricted". We propose renaming the "GN Restricted Electives" category to "Genetics Electives". Our students currently have a Research/Teaching requirement, but it is hidden in the footnotes for the GN Restricted Electives. We propose putting this requirement in a new category called "Genetics Research/Teaching Requirement" for clarification. Currently all Life Sciences courses are listed in one category. We propose separating these out into a "Required Life Sciences", "Genetics Research/Teaching Requirement", and the "Genetics Electives" categories. We propose that the new degree audit should have the headings listed below. Classes to be placed under each heading are listed under those headings in the attached Format B.

Orientation
Advanced Writing and Communication
Mathematical Sciences and Physics
Chemistry
Required Life Sciences
Genetics Research/Teaching Requirement
Genetics Electives
Restricted Electives
GEP Courses
Free Electives
Non-Degree Courses

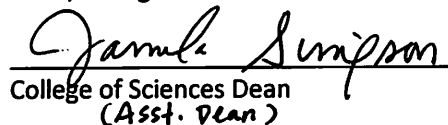
Updating course offerings in the above-mentioned categories: These changes reflect the removal of the old GN Restricted Elective category and its courses, the population of newly created categories, the addition of newly created Physiology courses, and the addition of new elective courses. The proposed changes should have little impact on other departments – courses being offered by other departments are being added to lists of electives and none are being added as requirements.

Electives/Requirement	Action	Course	Title
GN Restricted Electives	Drop	Remove this category and move courses to the new categories as listed below.	
Genetics Research/Teaching Requirement	Add Category and Courses	GN 496	Genetics Research Experience
		GN 497	Genetics Teaching Experience
Genetics Electives	Add Category and Courses	GN 427	Introductory Bioinformatics
		GN 434	Genes and Development
		GN 441	Human and Biomedical Genetics
		GN 451	Genome Science
		GN 456	Epigenetics, Development, and Disease
		GN 541	Human and Biomedical Genetics
Cell Biology/Physiology Requirement	Add Courses	BIO 240	Principles of Human Anat & Phys (A)
		BIO 245	Principles of Human Anat & Phys (B)
Restricted Electives	Add Courses	AEC 450	Conservation Genetics
		ANT 370	Forensic Anthropology
		BIO 432	Evolutionary Medicine
		BIO 434	Hormones and Behavior
		BIO 440	The Human Animal: An Evolutionary Perspective
		MA 331	Differential Equations for the Life Sciences
		MA 341	Applied Differential Equations
		MB 441	Immunology
		MEA 200	Marine Biology
		PSY 430	Biological Psychology
		TOX 401	Principles of Toxicology
		ZO 410	Introduction to Animal Behavior

SIGNATURES (AS REQUIRED):

 4/12/17
 Head, Dept. of Biological Sciences Date

 4/12/17
 Chair, College Curriculum Committee Date

 4/12/17
 College of Sciences Dean (Asst. Dean) Date

 Chair, University Courses & Curriculum Committee Date

PROPOSED EFFECTIVE DATE: 1 June 2017

APPROVED EFFECTIVE DATE: _____

 Dean, Academic and Student Affairs Date

FORMAT A
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: Proposed: X Proposed Effective Semester: Summer 1 2017

Degree/Plan Title: Bachelor of Science in Genetics Concentration/Subplan Title:

Plan SIS Code: 17GNBS 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
LSC 101 : Critical Creative Thinking Life Sci ^{1,G} ✱	2	BIO 183 : Intro Bio: Cellular and Molecular ¹	4 (CP)
BIO 181 : Intro Biol: Ecol., Evol. Biodiversity ^{1,B}	4 (CP)	CH 221 : Organic Chemistry I ¹	3 (CP)
CH 101 : Chemistry A Molecular Science ^{1,B}	3 (CP)	CH 222 : Organic Chemistry I Lab ¹	1
CH 102 : General Chemistry Lab ¹	1	MA 231 : Calc. for Life & Mgt Sci B ^{1,2,A}	3 (CP)
MA 131 : Calculus for Life and Mgt Sci A ^{1,2,A}	3 (CP)	ENG 101: Academic Writing & Research ^{1,H}	4
LSC 103 : Exploring Opportunities Life Sci ✱ ¹	1		
GEP Health and Exercise Studies ✱ ^E	1		
<i>Total: 15</i>		<i>Total: 15</i>	
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 223 : Organic Chemistry II ¹	3 (CP)	GN 311 : Principles of Genetics ¹	4 (CP)
CH 224 : Organic Chemistry II Lab ¹	1	GN 312 : Elementary Genetics Laboratory ¹	1
ST 311 : Intro to Statistics ^{1,3,2}	3	CH 201 : Chemistry – A Quantitative Sci ¹	3 (CP)
Restricted Elective ^{1,4}	4	CH 202 : Quantitative Chemistry Lab ¹	1
GEP Social Science Req ^D	3	Restricted Elective ^{1,4}	4
GEP Health and Exercise Studies ^E	1	Communications Req ^{1,5}	3
HES-GEP *** Health & Exercise Studies Course ^E	1		
<i>Total: 15</i>		<i>Total: 16</i>	
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
GN 421 : Molecular Genetics ¹	3	GN 425 : Advanced Genetics Laboratory ¹	2
BCH 451: Principles of Biochemistry ¹	4	GN 423 : Pop., Quant., Evol Genetics ¹	3
PY 211 : College Phyics Physics I ^{1,6}	4	PY 212 : College Physics II ^{1,6}	4
ENG 333: Comm. For Sci & Research ¹	3	GEP Social Science Req. ^D	3
GEP Humanities Requirement ^C	3	GEP Addtl. Breadth Req. ^F	3
<i>Total: 17</i>		<i>Total: 15</i>	
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
GN-Restricted Electives ^{3,7}	3	GN-Restricted Elective ^{3,7}	6
Genetics Research/Teaching Requirement ⁷	3	Genetics Electives ^{1,9}	6
Cell Biology/Physiology Requirement ^{1,8}	3/4	GEP Humanities Requirement ✱ ^C	3
GEP Interdisc. Persp. Req ^G	3	Free Elective	7
Free Elective	6/5		
PB(BIO)414/421 Cell Biology/Physiology³	3		
<i>Total: 15</i>		<i>Total: 16</i>	
Minimum Credit Hours Required for Graduation ^{*I,J,K} : 124			

Major/Program Footnotes:

1. A minimum grade of C- is required in these courses.
2. MA 141 and MA 241 may be substituted for the MA 131 and MA 141 requirements, respectively. Please note that MA 131 does not satisfy the prerequisites for MA 241.
3. ST 371 may be taken instead of ST 311 and is recommended for students with interests in computational areas. Please see an advisor to discuss your options.
4. Student must select at least 8 hours from the Restricted Electives options in the degree audit.
~~Eight hours from BIT 410 Manipulation of Recombinant DNA, ENT/BIO 425 General Entomology, MB 351/352, General Microbiology and General Microbiology Laboratory, PB 250 Plant Biology, PB 400 Plant Structure and Diversity, BIO 350 Animal Phylogeny and Diversity, BIO 402/403 Invertebrate Zoology and Invertebrate Zoology Laboratory, BIO 444 The Biology of Love and Sex, BIO 456 Epigenetics, Development, and Disease.~~
5. This course must be selected from the following courses: COM 110 Public Speaking, COM 112 Interpersonal Communications or COM 211 Argumentation and Advocacy.
6. PY 205 and PY 208 may be substituted for PY 211 and PY 212. PY 205 and PY 208 are calculus-based and may require the MA 141 and MA 241 series of Mathematics (see footnote 1). PY 201 and PY 202 also may be substituted for PY 211 and PY 212. PY 201 and PY 202 are calculus-based, require the MA 141 and MA 241 series ~~and are restricted to students in the College of PAMS.~~
7. ~~See the degree audit Restricted Electives requirement for course selection options. At least 3 hours must be GN 492 or GN 493 or ALS 498 or ALS 499 with advisor approval and at least 3 hours must be a GN classroom elective. A maximum of 6 hours of GN 492/493 can be applied toward graduation.~~
7. Student must select one course from the Genetics Research/Teaching Requirement options in the degree audit. A grade of "S" is required in this course.
8. Student must select at least 3 hours from the Cell Biology/Physiology Requirement options in the degree audit.
9. Student must select 6 hours from the Genetics Electives options in the degree audit.

Graduate requirements include: Students must have a 2.0 overall GPA.

*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)
In Genetics, this GEP requirement is met through the Major course requirements.
- B. Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)
In Genetics, this GEP requirement is met through the Major course requirements.
- C. Humanities** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Humanities course list. Some courses on this list will also meet the U.S. Diversity or Global Knowledge co-requisites.
- D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)
Choose from the University approved GEP Social Sciences course list. Some courses on this list will also meet the U.S. Diversity or Global Knowledge co-requisites.
- 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
- 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: LSC 101 meets 2 credit hours 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.
- 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

<u>Degree/Plan Title:</u> Bachelor of Science in Genetics	<u>Plan SIS Code:</u> 17GNBS
<u>Concentration/Subplan Title:</u>	<u>Subplan SIS Code:</u>
<u>Indicate requirements status:</u> Current: Proposed: X	<u>Proposed Effective Semester:</u> Summer 1 2017
<u>New Degree Audit required?</u> (Y or N) Y	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.	

MAJOR FIELD OF STUDY REQUIREMENTS:	Credit Hours	GEP category, if applicable
<p style="text-align: center;"><i>Required Courses/Groups/ Electives:</i></p> <p style="text-align: center;">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>List GEP category and hours satisfied by a Major requirement</i></p>
<p>Advanced Writing and Communication</p> <p>English and Advanced Writing</p> <ul style="list-style-type: none"> * ENG 333 Comm. for Science and Research 3 Communications Requirement (Select from COM 110, COM 112 or COM 211) 3 <p>Note: ENG 101 is currently shown in this category, but should be relocated to the GEP category.</p> <p>*Mathematical Sciences and Physics</p> <ul style="list-style-type: none"> * MA 131 Calculus for Life and Mgt Sci A 3 (CP) * MA 231 Calculus for Life and Mgt Sci B 3 (CP) * ST 311 Introduction to Statistics 3 * PY 211 College Physics I 4 * PY 212 College Physics II 4 <p>*Chemistry</p> <ul style="list-style-type: none"> * CH 101 Chemistry A Molecular Science 3 (CP) * CH 102 General Chemistry Lab 1 * CH 201 Chemistry A Quantitative Science 3 (CP) * CH 202 Quantitative Chemistry Lab 1 * CH 221 Organic Chemistry I 3 (CP) * CH 222 Organic Chemistry I Lab 1 * CH 223 Organic Chemistry II 3 (CP) * CH 224 Organic Chemistry II Lab 1 <p>*Required Life Sciences</p> <ul style="list-style-type: none"> * LSC 101 Critical Creative Thinking Life Sciences 2 * BIO 181 Intro Bio: Ecol, Evol, Biodiversity 4 (CP) * BIO 183 Intro Bio: Cellular and Molecular 4 (CP) * GN 311 Principles of Genetics 4 (CP) * GN 312 Elementary Genetics Laboratory 1 * GN 421 Molecular Genetics 3 * GN 423 Pop, Quant, Evol Genetics 3 * GN 425 Advanced Genetics Lab 2 * BCH 451 Principles of Biochemistry 4 * Cell Biology/Physiology Requirement (Select from BIO 240, BIO 245, BIO 414, BIO 421, PB 414, PB 421) 3 PB(BIO)414/421 Cell Biology/Physiol.* 3 * GN-Restricted Electives 9 		<p>Mathematical Sciences, 3 Mathematical Sciences, 3</p> <p>Natural Science, 3</p> <p>Interdisciplinary Perspectives, 2 Natural Sciences, 4</p>

<p>**Genetics Research/Teaching Requirement ** Select one of GN 496, GN 497</p> <p>*Genetics Electives * Select from GN 427, GN 434, GN 441, GN 451, GN 456, GN 541</p> <p>*Restricted Electives * Select from AEC 450, ANT 370, BIO 432, BIO 434, BIO 440, BIO 444, BIT 410, ENT/BIO 425, GN 456, MA 331, MA 341, MB 351/352, MB 441, MEA 200, PB 250, PB 400, PSY 430, TOX 401, ZO BIO 350, ZO BIO 402/403, ZO 410</p> <p>* C- or better required.</p> <p>** S/U grading with S required.</p>	<p>3</p> <p>6</p> <p>8</p>	
Concentration Courses/Groups/Electives:		
Free Electives:	13	
Total credit hours under Major Field of Study: <i>Minimum 27 hours required in program area.</i>	99 hours	
COLLEGE REQUIREMENTS:		
Orientation Course(s): LSC 103	1	
Other:		
Total credit hours under College Requirements:	1 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 <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 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>		(Choose statement 1, 2 or 3) 2
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>		(Choose statement 1, 2 or 3) 2
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) 1
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	(Choose statement 1, 2 or 3) 1
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) 1
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>	3	(Choose statement 1, 2 or 3) 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.	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) 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	X	Satisfied by College/Program Requirements
Total credit hours required to complete Degree: Total must be within 120-128 credit hours.	124 Total hours	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

NC STATE

Betty Gardner <bgardner@ncsu.edu>

Genetics Restricted Electives

3 messages

Betty Gardner <bgardner@ncsu.edu>
To: Alina Duca <anduca@ncsu.edu>

Tue, Mar 28, 2017 at 12:45 PM

Hi Alina,

You mentioned the MA 331 last week in UAAC, and I said I want to add it to our electives list. Is that ok with you? I was also thinking about adding MA 341. While I know that the emphasis is not on the life sciences in 341, I thought it might help some of the students (currently only about 3 out of 85) who are interested in pursuing an engineering/math related direction with their degree. I do not know if I need to do an official consult or not since we are in the same college, but I wanted to get your opinion. I think very few would take MA 341, but hope to encourage several to take MA 331.

Please let me know your thoughts.

Sincerely,
Betty

--

Marian B. Gardner, Ph. D.

Director, Undergraduate Genetics Program
Department of Biological Sciences
2532 Thomas Hall
Box 7614
North Carolina State University
Raleigh, NC 27695-7614

(919) 515-5776
bgardner@ncsu.edu

Alina Duca <anduca@ncsu.edu>
To: Betty Gardner <bgardner@ncsu.edu>

Tue, Mar 28, 2017 at 1:47 PM

Hi Betty,

I think both classes would be good, it would depend on the student's interest in math, and their background. Also, we have a follow-up class MA432 which has MA341 as pre-req and we'll be adding MA331 as a pre-req as well. If you have any students interested in taking this one with MA331 completed ask them to email me or Molly Fenn.

Happy advising!

Alina

Alina Duca, PhD

Director of Undergraduate Programs, Mathematics Department
College of Sciences | North Carolina State University
<http://www.math.ncsu.edu/undergrad> | (919) 515-1875 | SAS 2108

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NC STATE

Betty Gardner <bgardner@ncsu.edu>

Genetics Electives list

Maggie Puryear <maggie_puryear@ncsu.edu>

Wed, Mar 29, 2017 at 10:15 AM

Reply-To: maggie_puryear@ncsu.edu

To: Betty Gardner <bgardner@ncsu.edu>

Hi Betty,

We are fine with your adding MEA 220 (Marine Biology) to your science electives. We will be happy to accommodate the extra students.

Best,
Maggie

Assistant Director of Undergraduate Programs
Dept. of Marine, Earth & Atmospheric Sciences
Office: 1113 Jordan Hall
Phone: 919-513-1093
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NC STATE

Betty Gardner <bgardner@ncsu.edu>

Genetics Major Course Electives

Dana Kotter-Gruehn <dkotter@ncsu.edu>

Tue, Mar 28, 2017 at 3:25 PM

To: Betty Gardner <bgardner@ncsu.edu>

Hi Betty,

thanks for contacting us about this. We already have a good number of bio majors who take psy 430 either as an elective and/or for the psych minor and we have no problem with you adding this course to the elective list. We have just increased the number of seats in this course because of a recent curriculum change that now requires all psych majors to take it. I am not anticipating any issues with having enough seats for the few students who want to take it from your department.

Best,

Dana

Dr. Dana Kotter-Gruehn

Director of Academic Advising & Lecturer

Department of Psychology

P: [919-513-4855](tel:919-513-4855)

NC State University

Campus Box 7650

639 Poe Hall

Raleigh, NC 27695

NC STATE

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Genetics Elective Course revision

4 messages

Betty Gardner <bgardner@ncsu.edu>
To: Martha Reiskind <mbreiski@ncsu.edu>

Tue, Mar 28, 2017 at 1:44 PM

Hi Martha,

We are re-working the elective courses for our Genetics undergraduate major. I wanted to add your AEC 450 Conservation Genetics class to the list of options for student electives. The list I am working on has 20 classes on it and students only take 2 - 3 of the classes for their degree. Based on that and the small size of our major, I do not anticipate very many students taking your class, but I wanted to get your opinion/permission to add the AEC 450 course to our electives list. I think that this class complements our existing courses well.

Please let me know your thoughts.

Sincerely,
Betty

--
Marian B. Gardner, Ph. D.

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Raleigh, NC 27695-7614

[\(919\) 515-5776](tel:9195155776)
bgardner@ncsu.edu

Martha Reiskind <mbreiski@ncsu.edu>
To: Betty Gardner <bgardner@ncsu.edu>

Tue, Mar 28, 2017 at 1:54 PM

That sounds great! Note, that I teach the undergraduate version on even springs.

Best,
Martha
[Quoted text hidden]

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Martha Burford Reiskind, PhD
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Lab website: <http://burfordreiskind.com/>

NC STATE

Betty Gardner <bgardner@ncsu.edu>

Genetics Major Proposed Elective Courses

D. Case <dtcase@ncsu.edu>

Thu, Mar 30, 2017 at 8:58 AM

To: Betty Gardner <bgardner@ncsu.edu>

Hi Betty,

The Department of Sociology and Anthropology has no objection to ANT 370 being added to a list of options for student electives in the genetics undergraduate major.

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