

## University Courses & Curricula Committee 2019-2020

April 29, 2020  
Talley Student Union 5101  
12:45pm-2:45pm

### Call to Order 12:45pm

- Welcome from Chair Rudi Seracino
- Remarks and Updates from OUCCAS/DASA
- Approval of UCCC April 15<sup>th</sup> 2020 Minutes
- Course and Curricular Business

### Continued Business

College of Natural Resources			
Presenter	Reviewers	Action	Type
Blank	Marshall, Hessling, Driscoll	Professional Golf Management 15SPMGTB-15SPMGTPGM	New Concentration

University College			
Presenter	Reviewers	Action	Type
Carlson Welch	Rucker, Blank, Merrill	Global Perspectives Certificate 32GPCTU	Revisions

College of Agriculture and Life Sciences			
Presenter	Reviewers	Action	Type
Bruce	Janca, Klesath, Krause	<a href="#">ARE 121 Agricultural Finance</a>	New Course
Bruce	Carlson Welch, Shah, Hessling	<a href="#">ARE 290 Professional Development in Agricultural Business Management</a>	New Course
Merrill	Simpson, Muse, Domigue	<a href="#">*PB 407/(507) Medical Ethnobotany</a>	New Course
Merrill	Fitzpatrick, Rucker, Janca	<a href="#">*PB 450/(550) Plant Ecology</a>	New Course

College of Sciences			
Presenter	Reviewers	Action	Type
Muse	Rucker, Gruehn, Reynolds	<a href="#">BIO 323 Paleoecology</a>	New Course

### New Business

Consent Agenda		
<a href="#">ACC 411 Business Valuation</a>	Minor	Change in Prerequisites
<a href="#">ACC 450 Auditing and Assurance Services</a>	Minor	Change in Prerequisites
<a href="#">*ADN 204 Art + Design Sophomore Studio Spring</a>	Minor	Change in Title, hours, requisites
<a href="#">*ADN 205 Art + Design Sophomore Studio IV</a>	Drop	Course being Dropped
<a href="#">BUS 280 Business Essentials</a>	Drop	Course being Dropped
<a href="#">BUS 351 Predictive Analytics for Business</a>	Minor	Change in Prerequisites, Corequisites
<a href="#">BUS 420 Financial Management of Corporations</a>	Minor	Change in Prerequisites
<a href="#">BUS 422 Investments and Portfolio Management</a>	Minor	Change in Prerequisites
<a href="#">BUS 462 Marketing Research</a>	Minor	Change in Prerequisites
<a href="#">BUS 473 Supply Chain Strategy</a>	Minor	Change in Year Offering
<a href="#">BUS 476 Decision Modeling and Analysis</a>	Minor	Change in Prerequisites
<a href="#">EC 348 Introduction to International Economics</a>	Minor	Change in Term, Year Offering
<a href="#">EC 351 Econometrics I</a>	Minor	Change in Prerequisites
<a href="#">EC 404 Money, Financial Markets, and the Economy</a>	Minor	Change in Prerequisites
<a href="#">EC 480 Introduction to Economic Research</a>	Minor	Change in Prerequisites
<a href="#">EC 490 Research Seminar in Economics</a>	Minor	Change in Prerequisites
<a href="#">GD 202 Designing for Settings, People, and Use</a>	Minor	Change in Prerequisites
<a href="#">*GD 301 Branding, Interaction, and Service Design</a>	Minor	Change in Prerequisites
<a href="#">HESM 281 Emergency Medical Responder</a>	Drop	Course being Dropped

<a href="#">HESM 335 Prevention of Sexual Assault and Violence</a>	Drop	Course being Dropped
BUS 280 replaced in Business Essentials	Minor	Replaced with MIE 201
Business Administration: Human Resources (20BUSBA-20BUSHR)	Minor	Updated two courses.
M 100 grading allowed on All Business degree audits	Minor	Allow S/U grading for M 100 in degree audits
Physics BA and BS	Minor	Replace PY 452 with Advance Experimental Physics
Economics, Business, and Accounting	Minor	ST 350 replaced with ST 305 and 312

College of Sciences			
Presenter	Reviewers	Action	Type
Muse	Shaffer, Merrill, Hessling	<a href="#">MB 200 The Fourth Horseman: Plagues that changed the world</a>	Revisions

College of Design			
Presenter	Reviewers	Action	Type
Schaffer	Bruce, Hessling, Reynolds	<a href="#">*ADN 288 History of Art + Design: 1918 to the Contemporary World</a>	New Course
Schaffer	Driscoll, Marshall, Muse	Bachelor in Landscape Architecture 12LARB	Discontinuation

College of Agriculture and Life Sciences			
Presenter	Reviewers	Action	Type
Bruce	Blank, Krause, Domingue	<a href="#">BAE 427/(527) Metabolic Systems Analysis</a>	New Course
Bruce	Simpson, Fitzpatrick, Marshall	<a href="#">CS 116 Agronomic Crops - Cotton, Peanuts, and Tobacco</a>	New Course
Merrill	Reynolds, Carlson Welch, Rucker	<a href="#">CS 118 Agronomic Crops - Corn, Small Grains and Soybeans</a>	New Course
Merrill	Klesath, Domingue, Marshall	BS Crop and Soil Science : Turfgrass Science 11CSSCBS-11CSSCTFG	New Concentration
Merrill	Schaffer,	BS Turfgrass Science 11TFGBS	Discontinuation

Poole College of Management			
Presenter	Reviewers	Action	Type
Janca	Blank Fitzpatrick, Rucker	<a href="#">MIE 437 Human Resources Analytics</a>	New Course
Janca	Marshall Shah, Domingue	Bachelor of Business Administration in Global Management Dual Degree Program (SKEMA)	New Program
Janca	Simpson, Carlson Welch, Krause	BS Bachelor of International Management Dual Degree Program (NEOMA)	New Program

College of Engineering			
Presenter	Reviewers	Action	Type
Reynolds	Klesath, Janca, Driscoll	BS Chemical & Biomolecular Engineering 14CHEBS-14CHEBIO	Revisions
Reynolds	Gruehn, Schaffer, Merrill	BS Chemical Engineering Biomanufacturing Sciences 14CHEBS-14CHEBMF	Revisions
Marshall	Jance, Hessling, Gruehn	Industrial Engineering 14IEBS	Revisions

## SLO= Student Learning Outcomes

**\*=Course Action Initiated Before October 1, 2019**

**Discussion:** UCCC Subcommittee

### Notes:

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

**SLO = Student Learning Outcomes**



**Division of Academic and Student Affairs**  
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## University Courses and Curricula Committee

April 15, 2020  
Electronically Hosted  
Call to Order: 12:45 PM

**Members Present:** Chair Rudi Seracino, Marta Klesath (past chair), Kanton Reynolds, Melissa Merrill, Daniel Gruehn, Catherine Driscoll, Peter Hessling, Wendy Krause, Peggy Domingue, Rucker Rob, Annie Carlson Welch, Peter Janca, Gary Blank, Coleman Simpson, Spencer Muse, Tej Shah, Lisa Marshall, Jackie Bruce, Kristen Schaffer,

**Members Absent:** David Fitzpatrick

**Guests:** Lisa Bullard, Kasey Harris, Michela Becchi, Melissa Pasquinelli, Anna Gibson, Robin Clements, Michael Kanters, Jason DeRousie

**Ex-Officio Members Present:** Li Marcus, Lexi Hergeth, Tim Petty, Kyle Pysher, Bret Smith, Stephany Dunstan

### WELCOME AND INTRODUCTIONS

- **Remarks from Chair** - Welcomed the committee members and reestablished the Zoom standards for voting.
- **Remarks from OUCCAS/DASA**- Lexi informed the committee that the room reservations for Fall 2020 will be confirmed on July 1, 2020.  
Li updated the committee on the syllabus regulation.
- **Melissa Pasquinelli shared information about the ADAA Independent Study and Special topics courses.** She would like a defined guidelines for accreditation among other impacts and reminded the committee and subcommittee of a few thing to keep in mind about oversight and guidelines. Members discussed that the individual colleges may have different struggles.
- **Presentation of the UCCC Special Topics Subcommittee** – Chair provided a summary of the information provided in the Google folder.  
A comment or recommendation may not be enough and indicated that best practices and absolute practices will have different situations.
- **Approval of the Minutes from April 1<sup>st</sup> 2020** – *Approved Unanimously*
  - Discussion: Member moved to approve by Catherine Driscoll.

### OLD BUSINESS

- **CSC 297 Cybersecurity Topics** – *Tabled with two opposed votes Spencer and Wendy. One abstained Marta*  
Discussion: Member Lisa Marshall presented the new course action.  
Members discussed that “TBD” is used in the syllabus and this made a few members uncertain. Members discussed that while there is a best practice to not use 0-100% for the schedule of topics. Members believe this is the type of class that needs that flexibility and that while it is not a best practice, this would still be acceptable.  
Members and Bret Smith discussed that there has to be a balance between having flexibility and being able to explain what the course will teach.  
Pending a change to the attendance, participation and discussion to a lower range than 0-100%  
Motion to Table the course based on the need for more detail in the student evaluation methods. Spencer and Wendy are opposed to tabling the motion and Marta, Jackie, and Lisa abstained. Motion to Table passes.  
Motion is Tabled based on the need for the evaluation methods to be an accurate reflection of this course and that the evaluation methods seem somewhat inappropriate, for example, having some limits so that things such as participation are not 0-100%. Members would like to see reasonable limits of what percent of the final grade things like attendance, discussion forum posts, readings, and participation don’t have a maximum of 100%  
Evaluate what are reasonable evaluation methods and remove the methods that are inappropriate. Suggest replacing topic list with “Topic outline specific to the course content will be available in the section syllabus”.

The committee had difficulty understanding the ranges included in CIM. As it was written, it looked like a student would be able to gain 100% of their grade from attendance alone.

In order to help the faculty on the committee understand and review the intent of the design of this course, they recommended that when it comes back it should  
Include only those student evaluation methods that are likely to be used for the course (these can be changed in the future more easily than this initial creation)

Include minimum and maximum range caps where appropriate (for example, if a student is only really likely to get 10-20% of their grade from attendance, put that in).

The topic outline provided in CIM should provide a bit more information about likely subjects. While content that relates to these topics may differ, there should be a general idea of the topics covered as they relate to cybersecurity.

All of this will provide them with a clearer sense of the role that this class plays as a part of the Computer Science degree.

- **CSC 471 Modern Topics in Cybersecurity** – *Tabled with two opposed votes Spencer and Wendy.*  
Discussion: Member Lisa Marshall presented the new course action as Tabled, based on similar evaluation methods as the previous course. Member commented that the attendance and late assignments (TBD) policies in the syllabus are vague and should have examples of how this course will use the late assignments.
- **ECF 465/(565) Operating Systems Design** – *Approved Pending*  
Discussion: Member presented the new course action. Member indicated the topic outline in the syllabus is perfect, but in CIM this is incomplete. Guest Michela Becchi spoke on her course and indicated the syllabus was updated. Motion to amend motion to pending copying the topic schedule from the syllabus into the CIM record.  
Member brought attention to the grading and indicated that the course structure in the syllabus indicates that there may be quizzes that aren't graded. Guest indicated she will remove this statement from the syllabus.

## NEW BUSINESS

- **Consent Agenda** - *Approved Unanimously*  
Discussion: Member Wendy Krause moved to approve.
- **AFS/REL 343 African American Religions**- *Approved with Suggestion*  
Discussion: Member presented the course action. Member brought attention to the GEP outcome “student will develop” instead of being framed as “students will be able to”. Suggestion to copy the GEP information from into the SLO section in CIM. The topic outlines in the syllabus and CIM don't max, the presenter indicated the final exam is a final paper. Further discussion lead the committee to believe the schedule of topics make sense.
- Motion to extend meeting until 3PM. Motion passed.
- **ANT 370 Introduction to Forensic Anthropology**- *Approved with Suggestions*  
Discussion: Member presented the course action. In page 2 of the syllabus “policies” is misspelled and the link for student conduct is broken, so remove “This link will open in a new window”. Make hyperlink functional.
- **COM 200 Communication Media in a Changing World**- *Approved with Suggestion*  
Discussion: Member presented the course action. Members suggested removing the cost of the textbooks from the CIM record, but keeping it in the syllabus as it is.
- **ENG/FL 406 Modernism**- *Approved Unanimously*  
Discussion: Member presented the new course action.
- **ENG/FL 407 Postmodernism**- *Approved Unanimously*  
Discussion: Member presented the new course action.
- **HI 410 Italian Renaissance** - *Approved Unanimously*  
Discussion: Member presented the course action.
- **HSS 120 Introduction to Humanities & Social Sciences**- *Approved Unanimously*  
Discussion: Member presented the course action.
- **HON 360 Music and Oppression**- *Approved Pending*  
Discussion: Member presented the course action. Syllabus needs an updated DRO statement and the committee amended the motion to pending based on this need. The Anti-Discrimination statement should be update for an appropriate link.

- **BEC/CHE 488/(588) Animal Cell Culture Engineering- *Approved Pending***  
Discussion: Member presented the course action. Members asked if the commas are 'ors' or 'ands', guest confirmed all the commas should be "ors", The catalog description is not in the syllabus and needs to be included. Include a statement about the outside time requirement. Grading should be points or percentage and be consistent. Motion amended to pending. Pending DRO statement
- **CHE/BEC 448/(548) Bioreactor Design- *Approved Pending***  
Discussion: Member presented the new course action. Guest Lisa Bullard indicated the difference in graduate student evaluation methods is in the syllabus and will be added to the CIM record to meet the pending requirement.
- **CHE 452/(552) Biomolecular Engineering - *Approved Unanimously***  
Discussion: Member presented the new course action.

Meeting adjourned before all actions were discussed.

- **Professional Golf Management (15SPMGTBS – 15SPMGTPGM)**
- **Global Perspectives Certificate**
- **ARE 121 Agricultural Finance**
- **ARE 290 Professional Development in Agricultural Business Management**
- **PB 407/(507) Medical Ethnobotany**
- **PB 450/(550) Plant Ecology**
- **BIO 323 Paleoecology**

Discussion: No further discussion.

Meeting adjourned: 3:00PM.

*Respectfully submitted by Lexi Hergeth*

### Routing for DASA or Graduate School Approval of Other Degree Program Actions

**Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(s) as indicated

  X   New Minor / Concentration  
 Proposed Minor / Concentration Title Professional Golf Management

\_\_\_\_ Change in Minor / Concentration Title  
 Current Minor / Concentration Title: \_\_\_\_\_  
 Proposed Minor / Concentration Title: \_\_\_\_\_

\_\_\_\_ Change in Curricular/Program Requirements

Proposed Effective Date: 6/2020 Program Contact: Dr. Robert Wade

Proposed CIP Code (see <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>): 31.0504

**Routing of Action:** Indicate date when the following occurs

### Completed Proposal

\_\_\_\_\_ Department Head endorses\*

\_\_\_\_\_ College Curriculum Committee (undergraduate or graduate) recommends\*

\_\_\_\_\_ College Dean endorses\*

**Proposal moves to Undergraduate or Graduate office for routing**

\_\_\_\_\_ Recommended by Vice Provost, DELTA, if applies\*  
 \_\_\_\_\_ Associate Deans Council **or** Graduate Operations Council informed  
 \_\_\_\_\_ University Courses & Curriculum Committee **or** Administrative Board of the Graduate  
 \_\_\_\_\_ School recommends  
 \_\_\_\_\_ Dean (Graduate School or DASA) approves\*

\* Signature is required on the signature page for the action

**North Carolina State University**  
**Routing for DASA or Graduate School Approval of Other Degree Program Actions**

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

**Completed Proposal**

**Endorsed By:**

\_\_\_\_\_  
Head, Department/Program

\_\_\_\_\_  
Date

**Recommended By:**

*Lara Pacifici*  
\_\_\_\_\_  
Chair, College Curriculum Committee

March 30, 2020

\_\_\_\_\_  
Date

**Endorsed By:**

\_\_\_\_\_  
College Dean

\_\_\_\_\_  
Date

**Proposal moves to Undergraduate or Graduate office for routing**

**Recommended By:**

\_\_\_\_\_  
Vice Provost, DELTA (if DE degree/certificate)

\_\_\_\_\_  
Date

**Recommended By:**

\_\_\_\_\_  
Chair, University Courses & Curricula Committee  
or Administrative Board of the Graduate School

\_\_\_\_\_  
Date

**Approved By:**

\_\_\_\_\_  
Dean, DASA or the Graduate School





**To:** University Courses and Curricula Committee  
**From:** Dr. Robert Wade  
**Date:** February 28, 2020  
**Subject:** Changing Professional Golf Management to a Concentration within Sport Management

The purpose of this memo is to request approval for establishing a Professional Golf Management concentration within the B.S. in Sport Management (SPMGT).

The current title of the parent degree plan is Sport Management. The SIS code is 15SPMGTBS and the CIP Code is 31. The proposed concentration title is Professional Golf Management and the suggested SIS code for the concentration is 15SPMGTPGM.

**Statement of Justification:** The Professional Golf Management (PGM) program at NC State University is accredited by the PGA of America has existed since 2001. The enrolment in the program has varied and been as high as 112. Over the past few years, enrolment in the program has been declining. The current enrolment is approximately 50 students. There are seventeen other PGM programs in the country and the vast majority of them are a concentration within some other major. The change to a concentration is designed to help with both recruiting and retention in the program. The combination of golf management and sport management will offer students the opportunity to obtain a unique skill set. The golf industry is a multi-billion dollar industry and accounts for thousands of jobs in North Carolina and nationally. There are a wide variety of job opportunities for students that graduate with the concentration. While the number of openings at green grass facilities continues to grow, there is an increasing number of other opportunities including sales representatives, equipment sales, apparel sales, teaching, and working for various associations.

The following golf specific courses will be included in the Sport Management concentration but not in the parent curriculum:

- PRT 156 (Professional Golf Management Orientation) 3 credit hours
- PRT 210 (Professional Golf Management I) 1 credit hour
- PRT 211 (Golf Management II) 1 credit hour
- PRT 212 (Golf INstructor Development) 2 credit hours
- PRT 312 (Golf Management III) 1 credit hour
- PRT 411 (Club Management) 3 credit hour
- PRT 413 (Golf Management IV) 1 credit hours
- PRT 458 (Special Events Planning) 3 credit hours
- PRT 414 (PGA Apprentice Program Completion) 0 credit hours



**Consultation Statement:** The proposed concentration and associated courses will not impact other programs on campus. Consultation with other departments is not required.

**Proposed Implementation Date:** Fall 2020

**Matriculation Requirements for Internal Transfer Students:** The same as the parent curriculum.

**Enrollment History and Projections:**

Number of majors in the parent degree in each of the past four years

Fall 2016	370
Fall 2017	374
Fall 2018	375
Fall 2019	386

Number of graduates in the parent degree in each of the past four years

2015-2016	204
2016-2017	214
2017-2018	244
2018-2019	216

**Budget/Resources:** No additional resources will be required to implement the new concentration. The Department of Parks, Recreation and Tourism Management gained additional personnel when the PGM program started. Andy Betz left the university during the summer and has not been replaced yet so resources are available. The Player Development areas at the Lonnie Poole Golf Course provide facilities and equipment that can be used by students in both the parent program and the concentration.

**Catalog description of the proposed concentration:**

NC State's PGA Golf Management Program is one of 18 PGA accredited university programs nationwide. The curriculum provides students the opportunity to acquire knowledge and skills necessary for success in the golf industry via extensive classroom studies and internship experience.

Students earn a college degree and obtain membership to the PGA of America upon graduation. The academic requirements will take PGA Golf Management students through a variety of courses in different discipline areas including Sport Management, Business, Parks, Recreation & Tourism Management, and specified PGA GM topics (i.e. Business Planning, Teaching & Club Fitting, Merchandising, Tournament Operations, Customer Relations, Turfgrass Management, & Food & Beverage Management).

Students also complete 16 months of internship/co-op work experience at approved golf facilities under the direction of Class A PGA Professionals. The goal is to provide students with the best possible hands-on experience in a variety of locations.

PGA Golf Management students are active participants in many activities and organizations across campus including, but not limited to: PGM Ambassadors, College of Natural Resources Ambassadors Program, Student Government, University Honors programs, competitive club sports, intramural sports, Greek Life organizations, etc. Students are also involved in many service learning activities.

### Program Objectives

Format A (10-semester display) for the proposed concentration (see attached)

Format B (List of requirements) for the proposed concentration (see attached)

Format A (current 8-semester display) for the parent degree (see attached)

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

Indicate display status:      Proposed: X

Proposed Effective Semester: 6/2020

Degree/Plan Title: B.S. in Sport Management

Concentration/Subplan Title: Professional Golf Management

Plan SIS Code: 15SPMGTBS

Subplan SIS Code: 15SPMGTPGM

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
PRT 150 Parks, Recreation & Tourism Management Orientation	1	COM 110 Public Speaking	3
PRT 266 Introduction to Sport Management <sup>1</sup> (CP)	3	PRT 250 Management of Park and Recreation Facilities	3
PRT 156 Professional Golf Management Orientation (CP)	3	GEP Requirement*	3
MA Math elective <sup>2</sup>	3	EC Economics <sup>5</sup>	3
ENG 101 English	4	PRT 238 Diversity and Inclusion in Recreation and Sport	3
HESF 100-Level	1	HESF 200-Level	1
	Total:15		Total:16
Summer COP 100 Cooperative Education <sup>3</sup>			
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PRT 210 Teaching and Coaching Golf I	1	COP 200 Cooperative Education <sup>3</sup>	0
PRT 212 Golf Facility Management I	2		
MIE 201 Introduction to Business	3		
PRT 286 Writing and Speaking in Sports Organizations	3		
PRT 375 Professional Development and Internship Orientation	2		
Free Elective <sup>3</sup>	3		
	Total:14		Total:0
Summer COP 300 Cooperative Education <sup>3</sup>			
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PRT 211 Golf Facility Management II	1	ST 311 Statistics	3
PRT 312 Teaching and Coaching Golf II	1	PRT 380 Analysis and Evaluation in Parks, Recreation <sup>1</sup> (CP)	3
PRT 277 Psychological & Cultural Dimensions	3	PRT 376 Sport Administration <sup>1</sup> (CP)	3
GEP Requirement*	3	GEP Requirement*	4
GEP Requirement*	3	GEP Requirement*	3
Free Elective <sup>4</sup>	3		
	Total:14		Total:16
Summer COP 400 Cooperative Education <sup>5</sup>			
SENIOR YEAR I			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
COP 500 Cooperative Education <sup>3</sup>	0	ACC Elective <sup>6</sup>	3
		PRT 411 Golf Facility Management III	3
		PRT 413 Teaching and Coaching Golf III	1
		GEP Requirement*	2-3
		Free Elective <sup>4</sup>	6
	Total:0		Total:15-16



Revised 1/201

SENIOR YEAR II				
FALL SEMESTER		CREDITS	SPRING SEMESTER	CREDITS
PRT 414 PGA GM Program Completion <sup>3</sup>		0	PRT 466 Sport Finance and Economics	3
PRT 476 Sport Marketing		3	PRT 478 Sustainable Sport Facility Management	3
PRT 406 Sport Law		3	PRT 366 Sport Programming	3
GEP Requirement*		3	PRT 458 Special Event Planning	3
Free Elective <sup>4</sup>		6	Free Elective <sup>4</sup>	3
		Total: 15		Total: 15
Minimum Credit Hours Required for Graduation*: 120				

**Major/Program Footnotes:**

1. Minimum grade of C-
2. Select one course from the following: MA 105, MA 107, MA111, MA114 or MA121
3. Students must pass the PGA Golf Management tests, complete Work Experience Activities and pass the Playing Ability Test prior to graduation
4. A maximum of 12 credit hours of free electives can be taken for Credit Only
5. Select one course from the following: EC 205, EC 201, or ARE 201. Students wishing to complete a Business minor must take EC 205
6. Students wishing to complete a Business minor must take ACC 210. If not ACC 280 is also acceptable

**\*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: **Fulfilled as part of the major requirements. Students must take ST 311 and choose one class from the following list: MA 105, MA 107, MA 111, MA 114, MA121**
- 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: Choose from the University approved GEP Natural Science course list.
- 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: Choose from the University approved GEP Humanities course list.
- D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: Choose one class from the University approved GEP Social Sciences course list and choose one of the Economics courses from the following list: EC 201, EC 205, 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
- G. Interdisciplinary Perspectives** (5-6 credit hours)  
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better )

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

- I. U.S. Diversity (USD)**  
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- J. Global Knowledge (GK)**  
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- K. Foreign Language proficiency** - Proficiency at the FL\_102 level is required for graduation.

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
<b><u>PRT Major</u></b> PRT 150 PRT 238 PRT 250 PRT 266 (C-) PRT 277 PRT 286 PRT 366 PRT 375 PRT 376 (C-) PRT 380 (C-) PRT 406 PRT 466 PRT 476 PRT 478	1 3 3 3 (CP) 3 3 3 2 3 (CP) 3 (CP) 3 3 3 3	
<b><u>Math</u></b> MA 105, MA 107, MA 111, MA 114 or MA121 ST 311	3 3	Mathematics (6 hours)
<b><u>OTHER Major</u></b> ACC 210 or ACC 280 COM 110 EC 201 or 205 or ARE 201  MIE 201	3 3 3  3	Social Science  Interdisciplinary Perspective
<b><u>Concentration Courses/Groups/Electives:</u></b> PRT 156: PGM Orientation (3 credit hours) PRT 210: Golf Management I (1 credit hour) PRT 211: Golf Management II (1 credit hour) PRT 212: Golf Instructor Development (2 credit hours) PRT 312: Golf Management III (1 credit hour) PRT 411: Club Management (3 credit hours) PRT 413: Golf Management IV (1 credit hour)	15	



PRT 458 Special Event Planning (3 credit hours) PRT 414: PGA Apprentice Program Completion (0 credit hours)		
<b>Free Electives:</b>	<b>21</b>	
<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	<b>96 hours</b>	
<b>COLLEGE REQUIREMENTS:</b>		
<b>Orientation Course(s):</b>		
<b>Other:</b>		
<b>Total credit hours under College Requirements:</b>	Hours	

<b><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></b>  <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>  <i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		<b><u>At least one of the following must be listed:</u></b> 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.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <b>(Choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (6 credits) (At least 1 course with MA or ST prefix) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	X	(Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
<b>Natural Sciences</b> (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	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
<b>English 101</b> (C- or better required) (4 credits)	4	ENG 101
<b>Humanities</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
<b>Social Sciences</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	3	(Choose statement 1, 2 or 3) Major/College course requirement satisfies <u>3</u> credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.

<b>Additional Breadth</b> (3 credits) (Choose approach that is <i>different</i> from the approach of the Major) Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.	3	(Choose statement 5 or 6)  Choose course(s) from the University Approved GEP course list for this category.
<b>Interdisciplinary Perspectives</b> (5 credits) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	2	(Choose statement 1, 2 or 3)  Major/College course requirement satisfies <b>3</b> credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Health and Exercise Studies</b> (2 credits) (Including one <i>Fitness and Wellness</i> course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	<b>27 Hours</b>	
<b>GEP Co-Requisites:</b>		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.
<b>U.S. Diversity co-requisite</b> (USD)	n/a	7 (Choose statement 1 or  Co-requisite is satisfied by a Major/College course requirement.
<b>Global Knowledge co-requisite</b> (GK)	n/a	8 (Choose statement 1 or 4)  Choose course(s) from the University Approved GEP course list for this category.
<b>Foreign Language Proficiency</b>	n/a	Proficiency at the FL_102 level required.
<b>The following requirements must be satisfied within the College/Program:</b>		Place an X in the credit hour box to indicate below that the requirement is "Satisfied by College/Program Requirements"
<b>Communication in the Major (Advanced Communication)</b>	x	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	x	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	<b>120 Total Hours</b>	As applicable, indicate here the overall GPA requirement for degree completion including course completion.

**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		
PRT	150	Parks, Rec. & Tourism Mgt. Orient.	1	***	***	GEP Requirement*	3		
PRT	152	Intro. To Parks, Rec. and Tourism <sup>1</sup>	3 (CP)	PRT	238	Diversity & Inclusion in Recreation, & Sport <sup>1</sup>	3		
EN G	101	Academic Writing and Research <sup>1,H</sup>	4	***	***	GEP Requirement*	3		
MA	***	Mathematics Elective <sup>2,A</sup>	3	***	***	GEP Requirement*	3		
***	***	GEP Requirement*	4	HES	10*	Fitness & Wellness Course <sup>*E</sup>	1		
				PRT	266	Intro. To Sport Management <sup>1</sup>	3 (CP)		
			Total:15				Total:16		
SOPHOMORE YEAR									
FALL SEMESTER			CREDITS	SPRING SEMESTER			CREDITS		
EC	205	Economics(or EC 201 or ARE 201)* <sup>D</sup>	3	***	***	Interdisciplinary GEP Requirement* <sup>G</sup>	2-3		
***	***	GEP Requirement*	3	***	***	Free Elective	6		
***	***	GEP Requirement*	3	PRT	277	Psych. & Cultural Aspects of Sport	3		
COM	110	Public Speaking	3	***	***	GEP Requirement*	3		
PRT	286	Writing & Speaking in Sport	3						
			Total:15				Total:14-15		
JUNIOR YEAR									
FALL SEMESTER			CREDITS	SPRING SEMESTER			CREDITS		
PRT	366	Sports Programming or PRT 478, Sustainable Sport Facility Management	3	PRT	380/380L	Analysis & Evaluation in P & R <sup>1</sup>	3 (CP)		
ST	311	Intro. to Statistics <sup>A</sup>	3	PRT	376	Sport Administration <sup>1</sup>	3 (CP)		
PRT	375	Internship Orientation	2	***	***	Free Elective <sup>3</sup>	6		
***	***	Free Elective <sup>3</sup>	6	ACC	210	Concepts of Financial Reporting	3		
HES	***	Phys. Ed/Healthy Living Course* <sup>E</sup>	1						
			Total:15				Total:15		
SUMMER SESSION – 10 WEEKS									
PRT 475 – Recreation and Park Internship – 8 credits									
SENIOR YEAR									
FALL SEMESTER			CREDITS	SPRING SEMESTER			CREDITS		
PRT	406	Sport Law	3	PRT	466	Sport Finance & Economics	3		
PRT	476	Sport Marketing	3	***	***	Free Electives <sup>3</sup>	9		
***	***	Free Elective <sup>3</sup>	6						
			Total:12				Total:12		
Minimum Credit Hours Required for Graduation*: 122/123									

**Major/Program Footnotes:**

- 1 Minimum grade of C-
- 2 Select one course from the following: MA 105, MA 107, MA 111, MA 114, OR MA 121
- 3 A maximum of 12 credit hours of free electives can be taken credit only.

**\*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: **Fulfilled as part of the Major requirements. Students must take ST 311 and Choose one class from the following list: MA 105, MA 107, MA 111, MA 114, MA 121**
- 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: **Choose from the University approved GEP Natural Science course list.**
- 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: **Choose from the University approved GEP Humanities course list.**
- D. **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **Choose one class from the University approved GEP Social Science course list and choose one of the Economics courses from the following list: EC 201, EC 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:
- 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: **PRT 238**
- 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.



**N. C. STATE UNIVERSITY  
UNIVERSITY UNDERGRADUATE CERTIFICATE PROGRAM FORM**

COLLEGE/DEPARTMENT/PROGRAM NAME: **University College**

TYPE OF PROPOSAL:

New: ☐\_\_

Revision: ☒\_\_

Discontinuation: ☐\_\_

CERTIFICATE TITLE: **Global Perspectives Certificate**

CIP DISCIPLINE#: 30.2001

PROPOSED OR CURRENT PROGRAM CODE: 24GPCTU

CERTIFICATE TYPE: On-campus ☒ Distance ☐ On-campus & Distance ☐

PROPOSED EFFECTIVE DATE: Fall 2020 (2208)

APPROVED EFFECTIVE DATE:

**ATTACHMENTS TO BE INCLUDED:**

- ☐ Statement of Justification for Program
- ☐ Statement of Program Objectives
- ☐ Proposed Revision(s) with Reasons
- ☐ List of Program Requirements (use attached Format B)
- ☐ Catalog Description of Proposed Certificate
- ☐ Number of Certificate recipients in the past Five Years
- ☐ Projected Enrollment
- ☐ Admission Requirements
- ☐ Statement on Other Departments Likely to be Affected and Summary of Consultations with those Departments
- ☐ Signature Page
- ☐ Routing Form

**UNDERGRADUATE CERTIFICATE PROGRAMS**

**Guidelines and Procedures**

An NC State University Undergraduate Certificate Program (UCP) is a prescribed set of undergraduate level academic courses designed by an academic department or program and taken for credit by Degree and Non-degree studies (NDS) students. The proposed certificate program must have final approval from the Dean of Undergraduate Academic Programs. Upon completion, the certificate program will be designated on the participant's transcript.

Guidelines and Procedures for Preparing Certificate Program Proposals. The requirements for certificate programs may vary considerably across departments or program units. In order to ensure consistency from program to program, those preparing and approving proposals for a new or revision to a Undergraduate Certificate Program should observe the following guidelines and formatting:

**Certificate Requirements**

- Certificates will be titled "Undergraduate Certificate in..."
- The minimum number of credits required is 12 and the 12 core requirements must be university approved NC State undergraduate courses. In no case should a certificate be greater than 26 hours.
- Successful completion of an Undergraduate Certificate requires an overall 2.0 GPA in the coursework taken to fulfill the certificate requirements. Programs may require a minimum GPA/grade for certificate courses.
- Students are not eligible to earn a Certificate in the same discipline as the major or minor for which they are currently enrolled or if they have already received a degree or minor in the same discipline.
- Registration and Records should be contacted to coordinate a program code to be used to identify the certificate.
- Special Topics courses cannot be counted toward the initial 12-hour requirement. A special topics course may serve as a substitute for a required course as applicable.
- 75% of the credits for a Certificate must be NC State courses. Certificates being proposed with 50% of the credits from NC State courses requires justification



- If the proposed Certificate constitutes a significant departure from NC State current offerings such as offering the Certificate at an off-site location, the Southern Association of Colleges and Schools (SACS) is required to be notified which may delay the timeline for implementation. Depending on the proposal, a prospectus may be required. For detail on the types of substantive changes, see <http://www.sacscoc.org/SubstantiveChange.asp>.
- A time-limit for completion of the Certificate should be instituted if appropriate.

### **Format Requirements for Documentation**

The originating department should complete the official Undergraduate Certificate Program Form and include the following information in attachments to the form:

#### **1. Statement of Justification for the program including**

- The need for the certificate program in terms of otherwise unmet needs and interests of NC State University students and potential students and career opportunities for participants completing the certificate program. The relationship of the certificate program to other programs offered by NCSU. As appropriate, a statement of reference to UNC Tomorrow and the College's current long-range plan should be included.
- Additional justification as appropriate.

#### **2. For the discontinuation of a certificate program, justification should include the reason for the discontinuation and a phase-out plan if applicable. Statement regarding resources needed for the Certificate offering.**

#### **3. List the Program Objectives/Outcomes**

- At least 2 outcomes are required. Outcomes may overlap with outcomes associated with the related degree if applicable.

#### **4. Statement of Proposed Revision with Reasons**

- If revising a Certificate, list each of the proposed revisions and write a statement of justification for each.

#### **5. Statement of Program Requirements and completion of Format B**

- Proposals should clearly specify the program of study, including course requirements and course electives.
- For each course, include the course prefix, number, title, credit hours and pre-requisites.
- Identify and explain other requirements such as comprehensive examinations, oral presentations, or external learning experiences that are in addition to required coursework.
- Include the total credit hours required for the certificate
- Proposals should indicate any requirements for maintaining the quality of student performance, including, for example, overall GPA or student performance in specific courses required for continuance in the program and for successful completion of the program. A minimum overall GPA of at least a 2.0 is required.

**Note:** When new courses or the modifications of existing courses are being proposed in conjunction with the program, a completed Course Action Form for each new or revised course must be approved prior to program approval.

#### **6. Description**

- Proposals should include an undergraduate catalog description and links to any applicable website URL's.

#### **7. Number of Certificate recipients in the past five years**

- Figures may be accessed from University Planning and Analysis at <http://www2.acs.ncsu.edu/upa/enrollmentdata/index.htm>.

#### **8. Projected Enrollment**

- Provide the projected enrollment for a five-year period following the proposed effective date of the certificate program and a statement on the basis for the projections.

#### **9. Admissions Requirements**

- The proposing department/program establishes admission requirements, which must be clearly outlined in the proposal and all application materials. Please include deadlines for student application for admission and any restrictions on accepting courses taken prior to admittance.
  - List the name and contact information for the Program coordinator.
10. Statement on Other Departments/Programs Likely to be Affected and Summary of Consultations:
- Before proposals are sent forward for approval, they should be reviewed by all Colleges and program units that may be affected by the proposed program because of similar courses or course content, because of shared student clientele, or because the program of study, including course prerequisites, requirements, or electives carries scheduling or faculty and other resource implications. Consultation should be included from the Associate Dean of the affected College or their delegate. If the proposed certificate will be offered partially or completely through Distance Education and supported with Distance Education funding, contact DELTA's Distance Education office for enrollment planning information and a letter/email of support for the funding of the proposed enrollment projections if applicable.
11. Certificate Recognition
- The Certificate program coordinator will notify Registration and Records of the student's completion of the certificate requirements and the documentation should include the student ID, certificate title, courses taken to complete the certificate and the Dean's signature. The certificate program will then be designated on the participant's transcript and the participant will receive a hard copy signed certificate from NC State's Registration and Records office.
12. Approval Process for a New and Revisions to a Certificate
- A completed and signed Undergraduate Certificate Program Form and corresponding documentation should be submitted to the Dean of Undergraduate Programs electronically in word format or PDF to [course-curricula@ncsu.edu](mailto:course-curricula@ncsu.edu). The original hard copy with signatures should be sent to the Office of Undergraduate Courses & Curricula, Box 7105. The proposal will be placed on the next scheduled UCCC agenda. Upon signature by the Dean of the University College, the Certificate will move through the on-campus approval process as indicated on the Routing Form and Signature Page. The registrar's office, relevant college/department and the certificate program coordinator will be sent a copy of the approved certificate form.

## **Undergraduate Certificate Program Form: Global Perspectives Certificate**

### **1. Statement of Justification for the program: Global Perspectives Certificate**

Since the founding of the Global Perspectives Certificate in spring 2009, the certificate has been awarded to nearly 200 NC State undergraduate students and is currently being pursued by nearly 100 undergraduates.

The certificate looks to combine academically rigorous coursework alongside high impact co-curricular experiences (including service and international exploration), to encourage students to continue their global interests both overseas and within the United States, and to help develop crucial intercultural competencies which promote lifelong learning and exploration.

As the world is constantly changing, the overall goal of GPC remains consistent, but the way that the program seeks to achieve this goal must evolve along with the global society. In doing so, the GPC is proposing to update the certificate's learning outcomes and final project requirements. The proposed updates will work to better address the development of globally aware citizens across various academic disciplines, to provide a consistent final project experience to all GPC students, and ensure the certificate is accessible to all degree-seeking undergraduate students at NC State.

The GPC differentiates itself from other internationally focused programs on campus by integrating curricular and cocurricular elements to create well rounded global citizens in pursuit of the UNC System mission of applying knowledge gained through scholarship, service, and creative activities to address societal and individual needs on a global and local scale. The GPC also addresses the university's goal of engaging both locally and globally as well as enhancing student success through the promotion of high impact activities and rigorous academic coursework.

The GPC allows students to customize an interdisciplinary program of study across multiple NC State Colleges, and includes a service and co-curricular requirements, in order to help students to engage with other cultures on campus and in the Raleigh area. The co-curricular components of the GPC, which include community service and on-campus activities, enrich the whole campus and surrounding community. The service and co-curricular components also help certificate candidates integrate their international experience into their everyday lives rather than seeing it as an isolated event.

### **2. Statement of program objectives:**

The purpose of this certificate is to help students increase their awareness of global issues, apply their new insights to their academic concentrations, future career, and day-to-day life, and to contribute to the internationalization of our university. The program is open to undergraduate students of any major and class-standing. Both domestic and international students at NC State are welcome to apply for the certificate. This certificate program will also help other university programs: it can lead to recruitment of degree-seeking students who are interested in international awareness, increase study abroad involvement in all Colleges, lead to more involvement in university-sponsored activities, create greater diversity, and promote more social tolerance and acceptance on campus. The GPC may also encourage students to enroll in classes they are not likely to take otherwise.

**Program Objective:** Upon completion of the Global Perspectives Certificate, students will be able to demonstrate knowledge gained throughout their GPC experience, and articulate how their various experiences contributed to their development as global citizens.

#### **Students who complete the GPC will be able to:**

- Illustrate connections of global issues to their experiences within other cultures and their own.
- Evaluate how the internationalization of their education impacts academic, personal, and career goals.

### 3. Proposed Revisions:

Revision to the GPC include

1. revised student learning outcomes which better align with NC State standards and more clearly articulate the GPC goals
2. a revised final project that is managed by a central coordinator instead of faculty volunteers to ensure consistency across final project experiences.
3. New courses to be added to approved GPC course lists. Please see attached memos.

### 4. List of program requirements:

Students must complete five components to receive the certificate:

1. International Experience
2. Academic Experience
3. Co-Curricular Activities
4. Volunteer Service Activities
5. Final Project

#### 4.1. International Experience:

This must take place in a country other than the US, and be educational in some way. Options could include study abroad, international internships, overseas volunteer programs, research abroad, being an international student in the U.S., or any other international experience approved by the GPC Coordinator.

#### 4.11. Academic Experience:

To successfully complete this portion of the certificate, NC State students must be in good standing and achieve a minimum GPA of 2.0 overall for the required courses.

- A. Language requirement: Students must complete either the equivalent of FL 201 in the language in which they met the university foreign language requirement, or at least three credit hours at any level of study in a new language. Non-native English speakers can substitute FLE 101 to meet this requirement.
- B. Course requirement: 12 credit hours, which may simultaneously fulfill GEP or other degree requirements. Four courses with strong international emphasis must be chosen from three different categories:
  - a. European and Eurasian Studies;
  - b. Asian, African, and Latin American Studies;
  - c. Modern Global Issues.

#### 4.111-A. Co-curricular activities:

One important purpose of the co-curricular requirement is to help internationalize the NC State campus experience, increasing the amount of internationally related activity, and helping those students who are unable to go abroad to nonetheless benefit from global perspectives. The certificate also encourages students to participate in activities while abroad to help expand their international experience. Activities may be completed in the US or abroad.

Certificate recipients must engage in co-curricular activities totaling **at least 30 points** in the GPC system; whereas, one hour is worth roughly 1 point.

- Ten points may be awarded for semester-long commitment.
- Students may receive **a maximum of 7 points** for attending any single lecture or cultural event.
- Students may receive a **maximum of 15 points** for any one organization (e.g. Italian Club).

#### 4.111-B. Volunteer Service:

Students must also complete at least **10 hours of volunteer service**. The volunteer service must have an international focus (e.g. volunteer English tutor, helping immigrants with taxes or visas). Community service may be completed in the US or abroad.

NOTE: Volunteering is active service to others, and is considered separate from attending an event or being

part of an on-campus organization. Attending an event does not count toward volunteer hours. Students must complete 10 volunteer hours in addition to 30 points of co-curricular activities.

#### **Documentation of Participation in Co-Curricular and Service Activities Via Moodle Project Site:**

Students must provide documentation proving their participation in co-curricular and service activities. This can be in the form of an email to the GPC Coordinator from the leader or president of an organization the student is in, showing the name of the student, the organization, and verification of attendance. For lectures or events, students may save a ticket stub or program, photos from event, or scheduling conformation with the name of the lecture/event and the date. All documentation should be uploaded to the GPC Moodle project site along with student reflections for credit towards co-curricular and service activities.

#### **4.IV. Final Project:**

Students must prepare a synthesizing project which answers the five (5) thematic questions below about their experience in pursuing the Global Perspectives Certificate. The project may consist of a poster, a paper, powerpoint presentation, video, website, physical display, or combination of media.

Before beginning the project, the students must create a proposal, and submit it to the GPC Coordinator for approval. Students will participate in guided project development. Student will work with the GPC coordinator or representative as their point of contact for advice, guidance, and assessment of the final project. Assessment will be based on the provided rubric.

Upon completion, final projects should be made available to the wider community in some way, such as being posted online, or being presented on campus (classroom, residence hall, etc.).

#### **GPC Writing Prompts: Questions students must answer in the GPC Final Project:**

1. How do the international experiences you've gained while pursuing the Global Perspectives Certificate complement and enhance your studies and life here at NC State?
2. What were your perceptions about cultural values and norms in other countries before you began your international experiences? How have they changed as you finish the Certificate? Please include both general ideas and specific examples.
3. Why do you think it is important for students to "internationalize" their studies and everyday lives? How will you continue to do so in the future?
4. Reflect on your experiences abroad, coursework, co-curricular and volunteer activities. What are the "linear themes" you have learned that connect these opportunities? How have they helped you understand the interconnectedness of the world and global affairs?
5. How have the experiences and insights you have gained changed the way you see your own role in this global society?

Assessment of the student's final project will be based on the criteria below which asks students to:  
(For more details see the [full rubric](#).)

1. Summarizes GPC experiences (course work, international experience, co-curricular, service) with reference to how they relate to academic program (course work, majors/minors) or campus life (living/learning villages, clubs, volunteer work).
2. Provides a thread or theme to connect GPC experiences.
3. Show awareness of global issues.
4. Demonstrates insights about other cultures and intercultural competence.
5. Summarizes certificate experiences with reference to how they relate to career plan or future life interests.
6. Illustrate the impact of GPC experiences on you and your own role in this global society

#### **5. Catalog Description:**

The purpose of this certificate is to help students increase their awareness of global issues, apply their new



insights to their academic concentrations, future career, and day-to-day life, and to contribute to the internationalization of our university. The program is open to undergraduate students of any major and class-standing. Both domestic and international students at NC State are welcome to apply for the certificate. This certificate program will also help other university programs: it can lead to recruitment of degree-seeking students who are interested in international awareness, increase study abroad involvement in all Colleges, lead to more involvement in university-sponsored activities, create greater diversity, and promote more social tolerance and acceptance on campus. The GPC may also encourage students to enroll in classes they are not likely to take otherwise.

Upon completion of the Global Perspectives Certificate, students will be able to demonstrate knowledge gained throughout their GPC experience and articulate how their various experiences contributed to their development as global citizens.

## 6. Number of Certificate recipients in the past Five Years:

The GPC awarded its first class of recipients in spring 2009. Since this time, the GPC has had nearly 200 students earn the certificate. A breakdown of recipients over the last five academic years is included below.

Year	2018 - 2019	2017 - 2018	2016 - 2017	2015 - 2016	2014 - 2015
Recipients	20	14	21	27	30

## 7. Projected enrollment:

Due to the rise of interest in international affairs in the public, as well as within higher education and study abroad, the GPC has and will attract a significant number of both current and potential students. Enrollment and the demographics of students participating in the GPC will be tracked through the online application form, and allow for further analysis of impact. The ongoing campus effort to offer an increase in internationally focused coursework, campus activities, and access to international experiences such as study abroad combined with strategic campus outreach from the GPC will likely lead to significant increased interest in the program.

Year	2019 - 2020	2020 - 2021	2021 - 2022	2022 - 2023	2023 - 2024	2024 - 2025
Participants	90	100	110	120	130	140

## 8. Admissions Requirements:

- Students must be degree-seeking undergraduate students at NC State.
  - Students must be in good academic standing and have a minimum GPA of 2.0 for certificate courses overall.
- To declare your intent to complete the certificate, please fill out and submit the Global Perspectives Certificate Application Google Form (<https://goo.gl/forms/GhRjmdbUcpc5hLI53>)
- Once admitted, students should begin logging and tracking GPC requirement components via Moodle and their GPC degree audit.
- Submit Declare Final Project (<https://goo.gl/forms/uo1T8c6Nd9SiT13j1>) Google Form to declare your intent to begin working on your final project and completion of all GPC requirements.

## 9. Statement on Other Departments Likely to be Affected and Summary of Consultations with those Departments:

Each NC State college has a representative on the GPC Advisory Board, who, with assistance from departments consults on all major GPC revisions and actions. Advisory board members are expected to consult with their respective college on all potential GPC revisions, and provide feedback and guidance when necessary.

The GPC Coordinator, housed within University College, will be the primary contact for students as they

complete most of the certificate requirements; therefore there will be minimal work for departmental academic advisors. When necessary, the GPC Coordinator will meet with students to go over GPC requirements and any questions the student may have. The application requirements completed by the student will be submitted online and reviewed by the Coordinator. When necessary the GPC Coordinator will consult members of the Advisory Board for feedback on new courses and other necessary revisions to the GPC.

## **10. Other Documentation and Information**

### **1. Courses**

- a. [GPC Course Approval Memo](#)
- b. GPC Course Approval Consultations
  - i. College of Agriculture and Life Sciences
  - ii. College of Humanities and Social Sciences
  - iii. College of Design
  - iv. College of Engineering
  - v. Poole College of Management
  - vi. Wilson College of Textiles
  - vii. University College – Music Department
- c. GPC Approved Course Lists
  - i. [African, Asian, Latin America Studies](#)
  - ii. [European and Eurasian Studies](#)
  - iii. [Modern Global Issues](#)

### **2. Final Project**

- d. [GPC Final Project Guidelines](#)  
Direct Link: [https://drive.google.com/open?id=1O\\_ts40zGuWFKZQUfSQ\\_x4DAeowrUKw6UjZrb03L65oU](https://drive.google.com/open?id=1O_ts40zGuWFKZQUfSQ_x4DAeowrUKw6UjZrb03L65oU)
- e. [Sample GPC Declare Final Project Form](#)  
Direct Link: <https://goo.gl/forms/5lrVTicRDYGXfcWh1>
- f. [GPC Final Project Rubric](#)  
Direct Link: <https://gpc.dasa.ncsu.edu/wp-content/uploads/sites/17/2014/11/Updated-GPC-Rubric-July-2014.pdf>

### **3. Other Attachments and Information**


- g. [Format B documentation](#)  
Direct Link: <https://drive.google.com/open?id=1STQr4CXkoOmSqqByppo3JGDgyVwS537xsWpp8PTAX40>
- h. [Sample GPC Application Form](#)  
Direct Link: <https://goo.gl/forms/JMPuAyf45Iv1DgCS2>

**Signature Page**  
**Curricular Revision for Global Perspective Certificate**

**Proposed Effective Date:** Fall 2020


**Approved Effective Date:** \_\_\_\_\_


**Recommended By:**

 _____ <b>Head, Department/Program</b>	March 20, 2020 _____ <b>Date</b>
---	--

**Endorsed By:**

Please see attached email (pg. 12 & 13 of this document) _____ <b>Chair, GPC Advisory Board</b>	_____ <b>Date</b>
---	----------------------

 _____ <b>Chair, University College CCC</b>	March 30, 2020 _____ <b>Date</b>
--	--

 _____ <b>Dean, University College</b>	March 30, 2020 _____ <b>Date</b>
--	--

**Approved By:**

_____ <b>Chair, University Courses and Curricula Committee</b>	_____ <b>Date</b>
---	----------------------

_____ <b>Associate Vice Provost of Administration and Curricular Programs, Provost Office</b>	_____ <b>Date</b>
--	----------------------

March 20, 2020

To: University Courses and Curricula Committee

From: Kasey Harris  
Global Perspectives Certificate Coordinator

CC: Bret Smith  
Interim Dean, University College

RE: Proposed Course Additions to the Global Perspectives Certificate

The Global Perspectives Certificate (GPC) Board would like to amend the course lists for the certificate. Course changes to the certificate have not been made since Spring 2017. The proposed changes are meant to better reflect updated offerings. Each of the colleges offering courses to be added below have been reviewed and approved the changes via the Board Member representative and the respective Associate Dean. The supporting documents with documented approvals are attached. These course changes were discussed at the board meeting on March 20, 2020.

1. New courses to be added to the approved GPC course listing  
*Courses to be added to the approved GPC course listing are arranged by the category in which they will be listed for students' academic component requirement.*  
*Please note all courses are also approved to fulfill GEP requirements.*

**African, Asian and Latin American Studies**

ANT 345 - Anthropology of the Middle East  
ENG 375 - African American Cinema  
FLA 318 - Egyptian Culture through Film  
HI 214 - History and Archaeology of Ancient Latin America  
HI 317 - Cuba Today: Historical and Sociopolitical Perspectives  
HI 318 - Environmental History of Cuba: Prehistory to the Present  
HI 472 - Food, Fun, and Fashion: Material Culture in Chinese History  
REL 230 - Asian Religions  
REL 331 - The Hindu Tradition

**European and Eurasian Studies:**

ENG 255 - Beyond Britain: Literature from Colonies of the British Empire  
ENG 361 - Studies in British Poetry  
FLI 315 - Italian Civilization and Culture  
HI 321 - Scientific Revolution and European Society, 1500-1800  
HI 322 - The Rise of Modern Science  
HI 486 - Science and Empire  
HON 390 - Music and the Celtic World  
MUS 320 - Music of the 20th Century

**Modern Global Issues:**

M 380 – Doing Business Globally  
NTR 220 - Food and Culture  
ENG 275 - Literature and War  
ENG 329 - Language in Globalization  
ENG 374 - History of Film from 1940  
HI 318 - Environmental History of Cuba: Prehistory to the Present  
HI 340 - History of Agriculture  
HI/HA 240 - Introduction to Visual Culture  
IDS 201 - Environmental Ethics  
ES/ET 100 - Introduction to Environmental Sciences  
ES 150 - Water and the Environment

**Proposed Effective Date:** Fall 2020

**Approved Effective Date:** \_\_\_\_\_

**Recommended By:**

Kasey Kay Harris March 20, 2020  
Head, Department/Program Date

**Endorsed By:**

Please see attached email (pg. 12 & 13 of this document)  
Chair, GPC Advisory Board Date

Jennifer Capps March 30, 2020  
Chair, University College CCC Date

[Signature] March 30, 2020  
Dean, University College Date

**Approved By:**

\_\_\_\_\_  
Chair, University Courses and Curricula Committee Date

\_\_\_\_\_  
Associate Vice Provost of Administration and Curricular Programs,  
Provost Office Date



**NC STATE**

Kasey Harris &lt;kkharris@ncsu.edu&gt;

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**GPC Curricular Action**

4 messages

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**Kasey Harris** <kkharris@ncsu.edu>  
To: Helmut Hergeth <hhergeth@ncsu.edu>

Mon, Mar 30, 2020 at 7:51 AM

Hi Dr. Hergeth,

I hope you are doing well. Thank you again for taking the time to meet with me and the rest of our GPC advisory board to discuss our program. I've attempted to contact our current board chair to endorse our action. However, I have not received a response in over a week. In the interest of time and in an effort to keep the action moving forward, I was hoping you could sign off on it as our past chair. There should be two spaces for your electronic signature on pages 9 and 11. I've made the changes we discussed in our meeting, but I'm happy to update anything else you believe is necessary.

Have a wonderful day!

Kasey

--  
Kasey Harris  
Coordinator, GPC Program  
NC State University  
University College  
P: 919.513.1937  
Campus Box 7105

---

 **Complete GPC Revision Proposal (eff. 2208) (1).pdf**  
1890K

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**Helmut Hergeth** <hhh@ncsu.edu>  
To: Kasey Harris <kkharris@ncsu.edu>

Mon, Mar 30, 2020 at 12:16 PM

Hi Kasey,

I am happy to do that, but how do I open the document to sign it electronically?

Cordially,  
Helmut

**Dr. Helmut H. Hergeth**  
Wilson College of Textiles  
North Carolina State University  
[hhh@ncsu.edu](mailto:hhh@ncsu.edu)  
DAAD Research Ambassador

**NC STATE**

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

[Quoted text hidden]

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**Kasey Harris** <kkharris@ncsu.edu>  
To: Helmut Hergeth <hhergeth@ncsu.edu>

Mon, Mar 30, 2020 at 12:58 PM

Hi Helmut,

Thank you for your help. If you happen to have access to Adobe Pro, you'll just need to download the file and open it up (in app not in the browser). In the Tools menu, you can select the Fill & Sign option and that should give you the ability to sign the PDF. Here is a link to a quick YouTube video on [e-signing a PDF](#). Make sure to save the file once you've signed it and reattach it to our email chain and send it back to me.

If this does not work for you, I think an email from you confirming that our advisory board supports the action would suffice. I can attach that to the action I'm sure everyone will understand that we're doing our best.

If it's helpful, please feel free to give me a call (my phone number is [REDACTED]) and I'm happy to walk through it with you.

Have a great day!

Kasey

[Quoted text hidden]



**Complete GPC Revision Proposal (eff. 2208) (1).pdf**  
1890K

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**HHH NCSU** <hhergeth@ncsu.edu>  
To: Kasey Harris <kkharris@ncsu.edu>

Mon, Mar 30, 2020 at 1:33 PM

Hi Kasey,

I do not have the Adobe Pro on my laptop (and they don't allow me to to load the free trial anymore since I used that once before...).

So, I gladly state that I approve and sign via this email.

Stay healthy,  
Cordially  
Helmut

Dr. Helmut H. Hergeth  
[hkh@ncsu.edu](mailto:hkh@ncsu.edu)

On Mar 30, 2020, at 12:59, Kasey Harris <kkharris@ncsu.edu> wrote:

[Quoted text hidden]

<Complete GPC Revision Proposal (eff. 2208) (1).pdf>

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**GPC Request for Consultations with CALS**

4 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 4, 2019 at 2:03 PM

To: jose\_cisneros@ncsu.edu

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Mr. Cisneros,

Good afternoon, I hope this message finds you well. It has been some time since we last convened to talk about the Global Perspectives Certificate and there are several items I would like to discuss with you regarding our program.

As you may already know, in June, I was asked to assume the duties of the GPC coordinator and assist with the direction of the program. As a part of this transition process, I have identified several changes we can make to better support the program and to provide a more consistent experience for our students.

First, regarding the final project experience, in the past students have worked with a variety of faculty mentors to serve as advisors for their GPC experience. Many of these partnerships produced excellent work; however, some proved to be less effective. The decision has been made to have me work with each completing GPC student to coordinate their final project experience and advise them directly throughout their time in the program. By centralizing our capstone experience we will be better able to assess the impact of the GPC regarding our student learning outcomes and to collect final projects to share with our Advisory Board members, and with prospective students. This will also give us better data over time to continue to improve our program. As part of this transition, I will be reaching out to various board members to ask for assistance in critiquing our completer's final projects.

I have also identified a number of differences between how the program was originally intended to function and what seems to be most effective for our students. The plan is to update the Certificate program documentation in order to bring the program in line with our current best practices. Attached, please find a curricular action which focuses on bringing our program up to date, and which addresses both of these changes.

In addition to these changes, I may also ask you to review potential new additions to our approved course lists as part of our programs regular maintenance. If a course is being proposed that is housed in your college, I have attached a list with the course prefix, number, title, catalog description, and GEP information. A complete list of proposed course is also included with this email. Please consult with the appropriate individuals/committees in your college on the additions of these course to the GPC. If there are any course not on the approve or proposed course list which you or your college feel would meet our GPC requirements, please feel free to send me information to include these course in our proposed course list.

I believe we have a fantastic foundation, and with some careful planning and maintenance, we can continue to grow the GPC into a top tier NC State program to serve our Wolfpack community. I am requesting you review the attached documentation and provide feedback by April 1, 2019. I hope to schedule our next GPC Advisory Board meeting shortly after this deadline. I look forward to discussing the future direction of the GPC with you.

Thank you,  
Kasey Harris

--

Global Perspectives Certificate Program  
North Carolina State University  
University College  
[gpc.dasa.ncsu.edu](http://gpc.dasa.ncsu.edu)

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**3 attachments**

**GPC Revision Proposal (eff. 2198).pdf**  
317K



**GPC Course Approval Memo.pdf**  
110K

**Course Memo CALS.pdf**

18K

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**Jose Cisneros** <jose\_cisneros@ncsu.edu>  
To: Global Perspectives Certificate Program <global-perspectives@ncsu.edu>  
Cc: Bret Smith <bhsmith6@ncsu.edu>

Tue, Mar 5, 2019 at 8:30 AM

Dear Kasey,

Thank you for your email, I will read the documents and come back to you as soon as I am back home.

Thanks!

Jose

[Quoted text hidden]

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**Jose Cisneros** <jose\_cisneros@ncsu.edu>  
To: Global Perspectives Certificate Program <global-perspectives@ncsu.edu>  
Cc: Bret Smith <bhsmith6@ncsu.edu>

Tue, Mar 26, 2019 at 5:02 PM

Dear Kasey,

I read the GPC revision proposal and I agree with all revisions. Maybe, my only reservation is the future enrollment, I think it is a little too optimistic. Related to the course NTR220, I agree that it fits the required international component to be part of the GPC approved list. We are in the process of developing a minor in International Agriculture at CALS, I will see if we can find more courses that may qualify to be incorporated in GPC.

Thank you and congratulation for the great work.

Jose

[Quoted text hidden]

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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>  
To: Jose Cisneros <jose\_cisneros@ncsu.edu>  
Cc: Bret Smith <bhsmith6@ncsu.edu>

Wed, Mar 27, 2019 at 9:18 AM

Hello Jose,

Thank you for the feedback, we appreciate yours and CALS continued support of the GPC. I appreciate the feedback on future enrollment and will look into the numbers. Perhaps we can discuss what a more achievable, but still ambitious, enrollment projection would be in our advisory board meeting. I will be attempting to schedule one for the end of the semester soon.

Thank you for considering other courses to add to our course lists as well. The new International Agriculture minor sounds like it will be an awesome opportunity for students. I would love to learn more about it, and potential partnerships or cross-promotion opportunities with the GPC once it is developed.

All the best,  
Kasey

[Quoted text hidden]

**NC STATE**

Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

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**GPC Request for Consultation with CHASS**

3 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 4, 2019 at 2:07 PM

To: Karen Young &lt;kryoung@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Dr. Young,

Good afternoon, I hope this message finds you well. It has been some time since we last convened to talk about the Global Perspectives Certificate and there are several items I would like to discuss with you regarding our program.

As you may already know, in June, I was asked to assume the duties of the GPC coordinator and assist with the direction of the program. As a part of this transition process, I have identified several changes we can make to better support the program and to provide a more consistent experience for our students.

First, regarding the final project experience, in the past students have worked with a variety of faculty mentors to serve as advisors for their GPC experience. Many of these partnerships produced excellent work; however, some proved to be less effective. The decision has been made to have me work with each completing GPC student to coordinate their final project experience and advise them directly throughout their time in the program. By centralizing our capstone experience we will be better able to assess the impact of the GPC regarding our student learning outcomes and to collect final projects to share with our Advisory Board members, and with prospective students. This will also give us better data over time to continue to improve our program. As part of this transition, I will be reaching out to various board members to ask for assistance in critiquing our completer's final projects.

I have also identified a number of differences between how the program was originally intended to function and what seems to be most effective for our students. The plan is to update the Certificate program documentation in order to bring the program in line with our current best practices. Attached, please find a curricular action which focuses on bringing our program up to date, and which addresses both of these changes.

In addition to these changes, I may also ask you to review potential new additions to our approved course lists as part of our programs regular maintenance. If a course is being proposed that is housed in your college, I have attached a list with the course prefix, number, title, catalog description, and GEP information. A complete list of proposed course is also included with this email. Please consult with the appropriate individuals/committees in your college on the additions of these course to the GPC. If there are any course not on the approve or proposed course list which you or your college feel would meet our GPC requirements, please feel free to send me information to include these course in our proposed course list.

I believe we have a fantastic foundation, and with some careful planning and maintenance, we can continue to grow the GPC into a top tier NC State program to serve our Wolfpack community. I am requesting you review the attached documentation and provide feedback by April 1, 2019. I hope to schedule our next GPC Advisory Board meeting shortly after this deadline. I look forward to discussing the future direction of the GPC with you.

Thank you,  
Kasey Harris

--

Global Perspectives Certificate Program  
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**3 attachments****GPC Course Approval Memo.pdf**  
110K**Course Memo CHASS.pdf**  
42K

**GPC Revision Proposal.pdf**

317K

**Karen Young** <kryoung@ncsu.edu>

Thu, Apr 25, 2019 at 11:18 AM

To: Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;, Kasey Harris &lt;kkharris@ncsu.edu&gt;

Dear Kasey,

We have consulted with the departments in our college and support the addition of all of the proposed new additions to the GPC lists, with the excep. on of REL 220. Below, we offer sugges. ons for other REL courses that we believe are more appropriate additions instead of REL 220. We also offer some addiāonal courses we believe should be added to the GPC list of course op. ons.

Thank you,

Karen

Asia, Africa, Latin America Studies list

- **ENG 375: African American Cinema**
- **HI 472: Food, Fun, and Fashion: Material Culture in Chinese History**
- **HI 318: Environmental History of Cuba: Prehistory to the Present**
- **REL 230: Asian Religions**
- **REL 331: The Hindu Tradition**
- **REL 332: The Buddhist Traditions**
- **REL 333: Chinese Religions**
- **REL 334: Japanese Religions**
- **REL 408: Islam in the Modern World**

European and Eurasian Studies list

- **ENG 361: Studies in British Poetry**
- **HI 322: The Rise of Modern Science**

Modern Global Issues list

- **HI 318: Environmental History of Cuba: Prehistory to the Present**

[Quoted text hidden]

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Karen R. Young, Ph.D.

Assistant Dean and Director of Undergraduate Programs

College of Humanities and Social Sciences (CHASS)

NCSU Campus Box 8101

Raleigh, NC 27695-8101

Phone: (919) 515-2468

Fax: (919) 515-9419

\*\*\*\*\*

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Thu, Apr 25, 2019 at 12:05 PM

To: Karen Young &lt;kryoung@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;, Kasey Harris &lt;kkharris@ncsu.edu&gt;

Hello Karen,

Thank you to you and the College of Humanities and Social Science for your continued support of the GPC. I'll make sure to edit our course memo to remove REL 220 and to include all the suggested courses. I appreciate you suggesting these additional courses. I know our students will be excited by the growing diversity of courses they are able to count towards the certificate.



4/25/2019

North Carolina State University Mail - GPC Request for Consultation with CHASS

Have a wonderful day!

Kasey

[Quoted text hidden]

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**GPC Request for Consultation with COD**

3 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 4, 2019 at 2:06 PM

To: arri &lt;art\_rice@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Mr. Rice,

Good afternoon, I hope this message finds you well. It has been some time since we last convened to talk about the Global Perspectives Certificate and there are several items I would like to discuss with you regarding our program.

As you may already know, in June, I was asked to assume the duties of the GPC coordinator and assist with the direction of the program. As a part of this transition process, I have identified several changes we can make to better support the program and to provide a more consistent experience for our students.

First, regarding the final project experience, in the past students have worked with a variety of faculty mentors to serve as advisors for their GPC experience. Many of these partnerships produced excellent work; however, some proved to be less effective. The decision has been made to have me work with each completing GPC student to coordinate their final project experience and advise them directly throughout their time in the program. By centralizing our capstone experience we will be better able to assess the impact of the GPC regarding our student learning outcomes and to collect final projects to share with our Advisory Board members, and with prospective students. This will also give us better data over time to continue to improve our program. As part of this transition, I will be reaching out to various board members to ask for assistance in critiquing our completer's final projects.

I have also identified a number of differences between how the program was originally intended to function and what seems to be most effective for our students. The plan is to update the Certificate program documentation in order to bring the program in line with our current best practices. Attached, please find a curricular action which focuses on bringing our program up to date, and which addresses both of these changes.

In addition to these changes, I may also ask you to review potential new additions to our approved course lists as part of our programs regular maintenance. If a course is being proposed that is housed in your college, I have attached a list with the course prefix, number, title, catalog description, and GEP information. A complete list of proposed course is also included with this email. Please consult with the appropriate individuals/committees in your college on the additions of these course to the GPC. If there are any course not on the approve or proposed course list which you or your college feel would meet our GPC requirements, please feel free to send me information to include these course in our proposed course list.

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Thank you,  
Kasey Harris

--

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**2 attachments****GPC Revision Proposal.pdf**  
317K**GPC Course Approval Memo.pdf**  
110K

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arri <art\_rice@ncsu.edu>

Mon, Mar 4, 2019 at 5:40 PM

To: Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Looks reasonable and I am happy to help. Let me know what you need.

art

Arthur Rice, FCELA,  
Professor of Landscape Architecture

NCState University

Raleigh, NC 27695

[art\\_rice@ncsu.edu](mailto:art_rice@ncsu.edu)

(919)515-5482

[Quoted text hidden]

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## 2 attachments



**GPC Revision Proposal.pdf**

317K



**GPC Course Approval Memo.pdf**

110K

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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 11, 2019 at 9:12 AM

To: arri &lt;art\_rice@ncsu.edu&gt;

Hello Art,

Thank you for your response and for you and your college's continued support of the GPC. I'll be scheduling an advisory board meeting after I've received feedback from the other colleges. I will make sure to check back in with you as soon as I have more information.

Have a wonderful day!

Kasey

[Quoted text hidden]

**NC STATE**

Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

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**GPC Request for Consultations with College of Engineering**

3 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 4, 2019 at 2:04 PM

To: Brian Koehler &lt;bdkoehle@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Mr. Koehler,

Good afternoon, I hope this message finds you well. It has been some time since we last convened to talk about the Global Perspectives Certificate and there are several items I would like to discuss with you regarding our program.

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Thank you,  
Kasey Harris

--

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**2 attachments****GPC Course Approval Memo.pdf**  
110K**GPC Revision Proposal (eff. 2198).pdf**  
317K

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**Brian Koehler** <koehler@ncsu.edu>

Mon, Apr 1, 2019 at 10:20 AM

To: Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

Hi Kasey,

**Thanks for all of your hard work on this GPC over the years!**

This message just popped up for me, and I wanted to make sure that you knew how much I appreciate this GPC and your efforts.

Unfortunately, this year (and for a few) I am not going to be able to prioritize serving on the GPC Board.

Hope you had a relaxing weekend.

Go Wolfpack!

BK

\*\*\*\*\*

**Brian D. Koehler**

College of Engineering

NC State University



118 Page Hall / Box 7904

Raleigh, NC 27695

Phone: (919) 515-3263

Email: [koehler@ncsu.edu](mailto:koehler@ncsu.edu)**NC STATE**

[Quoted text hidden]

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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Wed, Apr 3, 2019 at 1:31 PM

To: Brian Koehler &lt;koehler@ncsu.edu&gt;

Hello Mr. Koehler,

Thank you for your response and for your support of the GPC throughout the years. We appreciate the attention you've brought to our program and all your efforts to help us grow. I completely understand other priorities and am happy to either hold your seat on our advisory board or work with someone else in the College of Engineering to ensure representation in our program. Thank you again for your feedback and support.

Have a wonderful week!

Kasey

[Quoted text hidden]



**Re: Welcome Back**

2 messages

**Robert Sandruck** <rlsandru@ncsu.edu>

Wed, Aug 21, 2019 at 2:05 PM

To: Global Perspectives Certificate &lt;global-perspectives@ncsu.edu&gt;

Hello from Poole College!

Thanks for sharing your newsletter. It was full of good information. It reminded me that Poole has a new course that could be a good addition to the GPC list of courses. M380 is a "Doing Business in" course that we offer in our summer study abroad programs. The course is customized to look at the political and economic factors that influence business in a region/country. For instance, in our China program, the course is Doing Business in China and we look at the political and economic issues influencing business in China. The course was approved as an IPD course in the general education program and I think it would be a great addition to the GPC approved courses.

When you get a chance, please let me know what you need to consider this course and the approval process we will need to follow.

Thanks,  
Rob

On Wed, Aug 21, 2019 at 1:36 PM Global Perspectives Certificate <global-perspectives@ncsu.edu> wrote:

[View this email in your browser](#)



## Welcome Back GPC Pack!

On behalf of the GPC staff, we would like to extend a warm welcome to all new participants and a happy welcome back to all of our returning students! In the sections below, you will find updates and resources to assist you in completing your Global Perspectives Certificate. If you have any questions or ideas on activities or events to incorporate to the GPC experience, please do not hesitate to contact us at [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu).

We look forward to working and supporting you and best wishes on a great start to the new academic year!

--

**Mr. Robert Sandruck**

Director of Global Programs  
Co-Director, Alexander Hamilton Scholars Program  
Poole College of Management  
North Carolina State University

TEL: +1 919.515.5565

FAX: +1 919.515.5564

EM: [robert\\_sandruck@ncsu.edu](mailto:robert_sandruck@ncsu.edu)Schedule an appointment @ [go.ncsu.edu/sandruckappointments](https://go.ncsu.edu/sandruckappointments)

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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Thu, Aug 22, 2019 at 3:43 PM

To: Robert Sandruck &lt;rlsandru@ncsu.edu&gt;

Hi Rob,

Thank you for reaching out and for reading our newsletter! I would love to include M 380 to our approved course list. I'm working on an action to update our course list now, so I'll make sure to add it on there. No action is needed on your part at the moment.

I would also love to share this course with our students. I see it is offered in the summer, so I would be happy to share information about this class in our newsletter around registration time (October). If there is any specific information on the course or any other you would like us to help promote (or internationally focused events within your college), please feel free to send it my way. We're always looking for things to share with our students.

Have a wonderful day!  
Kasey

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**NC STATE**

Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

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**GPC Request for Consultation with Wilson College of Textiles**

3 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 4, 2019 at 2:07 PM

To: Helmut Hergeth &lt;hhh@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Dr. Hergeth,

Good afternoon, I hope this message finds you well. It has been some time since we last convened to talk about the Global Perspectives Certificate and there are several items I would like to discuss with you regarding our program.

As you may already know, in June, I was asked to assume the duties of the GPC coordinator and assist with the direction of the program. As a part of this transition process, I have identified several changes we can make to better support the program and to provide a more consistent experience for our students.

First, regarding the final project experience, in the past students have worked with a variety of faculty mentors to serve as advisors for their GPC experience. Many of these partnerships produced excellent work; however, some proved to be less effective. The decision has been made to have me work with each completing GPC student to coordinate their final project experience and advise them directly throughout their time in the program. By centralizing our capstone experience we will be better able to assess the impact of the GPC regarding our student learning outcomes and to collect final projects to share with our Advisory Board members, and with prospective students. This will also give us better data over time to continue to improve our program. As part of this transition, I will be reaching out to various board members to ask for assistance in critiquing our completer's final projects.

I have also identified a number of differences between how the program was originally intended to function and what seems to be most effective for our students. The plan is to update the Certificate program documentation in order to bring the program in line with our current best practices. Attached, please find a curricular action which focuses on bringing our program up to date, and which addresses both of these changes.

In addition to these changes, I may also ask you to review potential new additions to our approved course lists as part of our programs regular maintenance. If a course is being proposed that is housed in your college, I have attached a list with the course prefix, number, title, catalog description, and GEP information. A complete list of proposed course is also included with this email. Please consult with the appropriate individuals/committees in your college on the additions of these course to the GPC. If there are any course not on the approve or proposed course list which you or your college feel would meet our GPC requirements, please feel free to send me information to include these course in our proposed course list.

I believe we have a fantastic foundation, and with some careful planning and maintenance, we can continue to grow the GPC into a top tier NC State program to serve our Wolfpack community. I am requesting you review the attached documentation and provide feedback by April 1, 2019. I hope to schedule our next GPC Advisory Board meeting shortly after this deadline. I look forward to discussing the future direction of the GPC with you.

Thank you,  
Kasey Harris

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**2 attachments**

**GPC Revision Proposal.pdf**  
317K



**GPC Course Approval Memo.pdf**  
110K

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**Helmut Hergeth** <hhh@ncsu.edu>

Tue, Mar 5, 2019 at 2:44 PM

To: Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

Hi Kasey,

Thank you for your email; I passed it along to our college C&C committee, and they are now debating what to do...I will ask them to simply state that we have no objections rather than go into CUE-mode !

One of the questions that came up is if you want us to suggest any of our courses as ideas to add to the list (even though I am not sure that any of our courses make a lot of sense there)?

An item I noticed is the second student learning outcome (Examine how the internationalization of their education impacts academic, personal, and career goals): "Examine" is difficult to measure, and SLOs should be measurable; this may become a point of discussion at UCCC or CUE, and I suggest something along the lines of "describe" or "evaluate" how....

Cordially,  
Helmut

**Dr. Helmut H. Hergeth**  
Wilson College of Textiles  
NC State University  
[hhh@ncsu.edu](mailto:hhh@ncsu.edu)  
DAAD Research Ambassador



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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Mon, Mar 11, 2019 at 9:25 AM

To: Helmut Hergeth &lt;hhh@ncsu.edu&gt;

Hello Helmut,

Thank you for your response, and I appreciate your support and feedback. I will make sure to update our second learning outcome with a more measurable verb. I believe "evaluate" could work particularly well as we are asking students to critically assess the impact of their experiences on various aspects of their academic and everyday life.

Regarding the addition of course, my review is simply based on recent revisions to the course catalog (particularly the GK GEP list). I would be happy to more comprehensively review the Textiles course catalog for other potential additions, and I am appreciative of any additions you or your college committee would like to suggest. We hope to ensure a wide range of offerings to maintain the accessibility of the GPC to all NC State undergrads.

Thank you again for your support and feedback.  
Have a wonderful day!  
Kasey

[Quoted text hidden]

**NC STATE**

Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

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**GPC Request for Consultations with MUS**

3 messages

**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Tue, Mar 5, 2019 at 9:57 AM

To: Daniel Monek &lt;dgmonek@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;

Hello Dr. Monek,

I hope this message finds you well. As part of the Global Perspectives Certificate's regular maintenance, we review the course catalog for new and revised course, which may fulfill our certificate's [academic coursework requirements](#). These courses typically have a strong international emphasis, are at least three credit hours, and fit into at least one of our course categories. Our students appreciate having a diverse range of course, which enables our certificate to fit into all NC State undergraduate majors.

As part of this year's review, we have identified MUS 320 *Music of the 20th Century* as a course which we would like to include on our European and Eurasian Studies course list. Based on the course description and the requirements of the Global Knowledge GEP, I believe this course would be a wonderful addition to our course list.

I would appreciate your feedback on this consultation by April 1, 2019. Also, I can amend our request to include any courses which you or your department feel met our course criteria for our course list(s). I'm happy to discuss this at your convenience.

Thank you,  
Kasey

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---

**Daniel Monek** <dgmonek@ncsu.edu>

Wed, Mar 20, 2019 at 12:12 PM

To: Global Perspectives Certificate Program &lt;global-perspectives@ncsu.edu&gt;

Cc: Bret Smith &lt;bhsmith6@ncsu.edu&gt;, Tom Koch &lt;tdkoch@ncsu.edu&gt;

Kasey,

Thank you for reaching out about the inclusion of MUS 320 in the Global Perspectives Certificate's course list. The Music department concurs that this would be an excellent addition to the course offerings. Our Curriculum & Assessment committee affirmed this at its March 19, 2019 meeting and I am happy to add my endorsement as well. Please let me know if you require any other materials in support of the addition.

Best

Dan

\*\*\*\*\*

Daniel G. Monek, Ph.D.  
Professor and Department Head  
Music Department  
(919) 515-1692  
[music.dasa.ncsu.edu](http://music.dasa.ncsu.edu)

**NC STATE**

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**Global Perspectives Certificate Program** <global-perspectives@ncsu.edu>

Thu, Mar 21, 2019 at 1:08 PM



3/21/2019

North Carolina State University Mail - GPC Request for Consultations with MUS

To: Daniel Monek <dgmonck@ncsu.edu>

Cc: Bret Smith <bhsmith6@ncsu.edu>, Tom Koch <tdkoch@ncsu.edu>

Hi Dan,

Thank you for your support and for allowing us to include MUS 320 on our approved course list.

Have a wonderful day!

Kasey

[Quoted text hidden]

# African, Asian, and Latin American Studies

Students must complete four courses, with at least one and a maximum of two from this category to be applied to the GPC. For questions about the approval of courses not listed, please contact the GPC Coordinator at [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu)

Note: A completed Foreign Language course cannot be applied to both the Foreign Language Requirement and the Course Requirement.

General Education Program (GEP) Abbreviation Key:

- GK: Global Knowledge
- HES: Health/Exercise Studies
- HUM: Humanities
- IP: Interdisciplinary Perspectives
- MP: Mathematical Sciences
- NS: Natural Sciences
- SS: Social Sciences
- USD: US Diversity
- VPA: Visual & Performing Arts

GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
GK	HUM	AFS 240	African Civilization	CHASS
USD	HUM	AFS/ENG 248	Survey of African-American Literature	CHASS
GK	HUM	AFS/HI 275	Introduction to the History of South and East Africa	CHASS
GK	HUM	AFS 276	Introduction to the History of West Africa	CHASS
GK	HUM	AFS 342	Introduction to African Diaspora	CHASS

GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
GK	HUM	AFS 343	African Religions	CHASS
GK	HUM	AFS/ENG 349	African Literature in English	CHASS
		AFS 440	Senior Seminar in Africana Studies	CHASS
GK	HUM	AFS 442	Issues in the African Diaspora	CHASS
GK	HUM	AFS/HI 475	History of the Republic of South Africa	CHASS
GK	HUM	AFS/HI 476	Leadership in Modern Africa	CHASS
GK	HUM	AFS/HI 479	Africa (Sub-Saharan) in the 20th Century	CHASS
GK	SS	ANT 315	The Aztecs, Maya, and Their Predecessors: Archeology of Mesoamerica	CHASS
GK	SS	ANT 325	Andean South America	CHASS
GK	SS	ANT 330	Peoples and Cultures of Africa	CHASS
GK	SS	ANT 346	Peoples and Cultures of Southeast Asia	CHASS
GK	HUM	ANT/FLJ 351	Contemporary Culture in Japan	CHASS
		ANT 354	Peoples and Cultures of the Pacific	CHASS
USD	HUM	ENG/AFS 248	Survey of African-American Literature	CHASS
GK	HUM	ENG/AFS 349	African Literature in English	CHASS
USD	HUM	ENG 448	African-American Literature	CHASS
		FLA 301	Advanced Intermediate Arabic I	CHASS
		FLA 330	Media Arabic	CHASS
		FLC 301	Intermediate Chinese III	CHASS
		FLC 302	Intermediate Chinese IV	CHASS
GK	HUM	FLC 351	Modern Chinese Popular Culture	CHASS

GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
		FLC 401	Advanced Chinese: Readings in Literature and Social Sciences	CHASS
		FLJ 301	Intermediate Japanese III	CHASS
		FLJ 302	Intermediate Japanese IV	CHASS
GK	HUM	FLJ 342	Classical Japanese Literature in Translation	CHASS
GK	HUM	FLJ 344	Early Modern Japanese Literature in Translation	CHASS
GK	HUM	FLJ 345	Modern Japanese Literature in Translation	CHASS
GK	HUM	FLJ/ANT 351	Contemporary Culture in Japan	CHASS
		FLJ 401	Advanced Japanese I	CHASS
		FLJ 402	Advanced Japanese II	CHASS
GK	HUM	FLN 301	Twentieth Century Hindi & Urdu Fiction	CHASS
GK	HUM	FLN 302	Modern Hindi & Urdu Poetry	CHASS
GK	HUM	FLN 401	Hindi Literature and South Asian Cultural Contexts	CHASS
		FLS 337	Spanish for Tourism in the Hispanic World	CHASS
GK	HUM	FLS 340	Introduction to Hispanic Literatures	CHASS
GK	HUM	FLS 351	Literature and Culture of Latin America I	CHASS
GK	HUM	FLS 352	Literature and Culture of Latin America II	CHASS
GK	HUM	FLS 353	Literature and Culture of Latin America III	CHASS
CK	VPA	FLS 360	Hispanic Cinema	CHASS

GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
		FLS 412	Topics in the Culture of Latin America and the Caribbean	CHASS
		FLS 413	Spain and the Americas in Transatlantic Perspective	CHASS
		FLS 492	Seminar in Hispanic Studies	CHASS
GK	NS	FW 465	African Ecology and Conservation	CNR
GK	HUM	HI 215	Latin America to 1826	CHASS
GK	HUM	HI 216	Latin America since 1826	CHASS
GK	HUM	HI 232	The World from 1200 to 1750	CHASS
GK	HUM	HI 263	Asian Civilization to 1800	CHASS
GK	HUM	HI 264	Modern Asia: 1800 to Present	CHASS
GK	HUM	HI 270	Modern Middle East	CHASS
GK	HUM	HI/AFS 275	Introduction to the History of South and East Africa	CHASS
GK	HUM	HI/AFS 276	Introduction to the History of West Africa	CHASS
GK	HUM	HI 370	Modern Egypt	CHASS
GK	HUM	HI 371	Modern Japan, 1850 to Present	CHASS
GK	HUM	HI 374	Visual Culture of Modern South Asia	CHASS
	HUM	HI 400	Civilization of the Ancient Near East	CHASS
GK	HUM	HI/REL 407	Islamic History to 1798	CHASS
GK	HUM	HI/REL 408	Islam in the Modern World	CHASS
	HUM	HI 451	The Vietnam War	CHASS
USD	HUM	HI 453	United States and Latin American Relations Since 1823	CHASS



GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
GK	HUM	HI 465	Oil and Crisis in the Gulf	CHASS
GK	HUM	HI 466	History of the Palestinian-Israeli Conflict	CHASS
GK	HUM	HI 467	Modern Mexico	CHASS
GK	HUM	HI 469	Latin American Revolutions in the 20th Century	CHASS
GK	HUM	HI 471	Revolutionary China	CHASS
GK	HUM	HI 473	Japan's Empire in Asia, 1868-1945	CHASS
GK	HUM	HI 474	Modern India	CHASS
GK	HUM	HI/AFS 476	Leadership in Modern Africa	CHASS
GK	HUM	HI 477	Women in the Middle East	CHASS
GK	HUM	HI 478	Islam and Christianity in Sub-Saharan Africa	CHASS
GK	HUM	HI/AFS 479	Africa (Sub-Saharan) in the 20th Century	CHASS
GK	VPA	MUS 350	World Music I: Music of Asia	DASA
GK	SS	PS 342	Politics of China and Japan	CHASS
		PS 343	Governments and Politics in South Asia	CHASS
GK	SS	PS 345	Governments and Politics in the Middle East	CHASS
GK		PS 443	Seminar in Latin American and Caribbean Politics	CHASS
GK	HUM	REL 230	Asian Religions	CHASS
GK	HUM	REL 331	The Hindu Tradition	CHASS
GK	HUM	REL 332	The Buddhist Tradition	CHASS
GK	HUM	REL 333	Chinese Religions	CHASS

GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
GK	HUM	REL 334	Japanese Religions	CHASS
GK	HUM	REL 340	Islam	CHASS
GK	HUM	REL 350	Introduction to Judaism	CHASS
GK	HUM	REL/HI 407	Islamic History to 1798	CHASS
GK	HUM	REL/HI 408	Islam in the Modern World	CHASS
GK		SW 440	International Learning Experience in Social Work	CHASS

# European and Eurasian Studies

Students must complete four courses, with at least one and a maximum of two from this category to be applied to the GPC. For questions about the approval of courses not listed, please contact the GPC Coordinator at [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu)

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GEP				
GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
HUM		ARC 242	History of Western Architecture	Design
GK	VPA	ARS 251	The Arts of A World Capital: London	CHASS
VPA		ARS 252	The Arts in Vienna 1900	CHASS
GK	HUM	CLA 210	Classical Mythology	CHASS
GK	HUM	CLA 215	The Ancient World in Modern Media	CHASS
GK	HUM	CLA 320	Masterpieces of Classical Literature	CHASS
GK	HUM	CLA 325	Gender, Ethnicity and Identity in the Ancient World	CHASS

<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM	ENG 220	Studies in Greak Works of Western Literature	CHASS
GK	HUM	ENG/FL 221	Literature of the Western World I	CHASS
GK	HUM	ENG/FL 222	Literature of the Western World II	CHASS
GK	HUM	ENG 246	The Literature of the Holocaust	CHASS
HUM		ENG 251	Major British Writers	CHASS
HUM		ENG 362	Studies in the British Novel	CHASS
HUM		ENG 460	Major British Authors	CHASS
GK	HUM	ENG 464	British Literature and the Founding of Empire	CHASS
GK	HUM	ENG 465	British Literature and the Dissolution of Empire	CHASS
		ENG 490	Studies in Medieval Literature	CHASS
GK	VPA	FL 216	Art and Society in France	CHASS
GK	HUM	FL/ENG 221	Literature of the Western World I	CHASS
GK	HUM	FL/ENG 222	Literature of the Western World II	CHASS
GK	IP	FLF 212	French: Language, Culture, and Technology	CHASS
GK	HUM	FLF 301	Survey of French Literature from the Middle Ages through the Enlightenment	CHASS
GK	HUM	FLF 302	Survey of French Literature from Romanticism to the Contemporary Period	CHASS
		FLF 306	French Business Communication	CHASS
		FLF 307	Business French	CHASS

GEP		GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
			FLF 308	Advanced Conversation: Contemporary French Cultures	CHASS
			FLF 309	French Phonetics and Pronunciation	CHASS
			FLF 310	Advanced Written Communication	CHASS
GK		HUM	FLF 315	French Civilization and Culture	CHASS
GK		VPA	FLF 318	The Heritage of French Cinema	CHASS
			FLF 321	French Cultures and Contexts	CHASS
			FLF 411	Approaches to French Translation	CHASS
GK		HUM	FLF 414	Studies in French Prose	CHASS
GK		HUM	FLF 425	Literature, Cinema, and Culture in the Francophone World	CHASS
			FLF 492	Seminar in French Studies	CHASS
GK		IP	FLG 212	German Language, Culture, Science, and Technology	CHASS
			FLG 301	Advanced German	CHASS
			FLG 302	German Oral and Written Expression	CHASS
			FLG 307	Business German	CHASS
			FLG 311	Introduction to German Translation	CHASS
GK		HUM	FLG 315	Germanic Civilization and Culture	CHASS
GK		VPA	FLG 318	New German Cinema	CHASS
GK		HUM	FLG 320	Introduction to German Literature	CHASS
GK		HUM	FLG 323	Twentieth Century German Literature	CHASS
GK		HUM	FLG 325	German Lyric Poetry	CHASS
			FLG 390	German Studies Topics	CHASS

GEP		GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
			FLG 398	Independent Study in German	CHASS
			FLG 420	Current Issues in German-Language Media	CHASS
			FLG 430	Cultural Artifacts in German-Speaking Countries	CHASS
GK	IP		FLG 440	Green Germany: Nature and Environment in German Speaking Cultures	CHASS
			FLG 492	Senior Seminar in German Studies	CHASS
			FLG 499	Internship in Germany, Austria, or German-Speaking Switzerland	CHASS
			FLI 308	Italian Reading and Conversation	CHASS
GK	HUM		FLI 318	Italian Society Through Cinema	CHASS
GK	HUM		FLR 303	Russian Literature in Translation: The Nineteenth Century	CHASS
GK	HUM		FLR 304	Russian Literature in Translation: The Twentieth Century	CHASS
GK	HUM		FLR 318	Russian Cinema and Society	CHASS
GK	IP		FLS 212	Spanish: Language, Technology, Culture	CHASS
			FLS 331	Spanish Oral and Written Expression I	CHASS
			FLS 332	Spanish Oral and Written Expression II	CHASS
			FLS 333	The Sounds of Spanish	CHASS
			FLS 336	Spanish for Business	CHASS
			FLS 337	Spanish for Tourism in the Hispanic World	CHASS
GK	HUM		FLS 341	Literature and Culture of Spain I	CHASS



<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM	FLS 342	Literature and Culture of Spain II	CHASS
GK	HUM	FLS 343	Literature and Culture of Spain III	CHASS
GK	VPA	FLS 360	Hispanic Cinema	CHASS
		FLS 400	Methods and Techniques in Spanish Translation and Interpretation	CHASS
		FLS 402	Introduction to Spanish Linguistics	CHASS
		FLS 411	Topics in the Culture of Spain	CHASS
		FLS 413	Spain and the Americas in Transatlantic Perspective	CHASS
		FLS 492	Seminar in Hispanic Studies	CHASS
VPA		HA 201	History of Art from Ancient Greece through the Renaissance	CHASS
VPA		HA 202	History of Art from the Renaissance through the 20th Century	CHASS
VPA		HA 401	19th Century European Art from Revolution to Post-Impressionism	CHASS
VPA		HA 404	Italian Renaissance Art and Material Culture	CHASS
HUM		HI 205	Western Civilization Since 1400	CHASS
GK, HUM	HUM	HI 207	Ancient Mediterranean World	CHASS
GK	HUM	HI 208	The Middle Ages	CHASS
GK	HUM	HI 209	From the Renaissance to Revolution: The Origins of Modern Europe	CHASS
GK	HUM	HI 210	Modern Europe 1815-present	CHASS
GK	HUM	HI 221	British History to 1688	CHASS

<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM	HI 222	History of British Cultures and Societies from 1688	CHASS
GK	HUM	HI 232	The World from 1200 to 1750	CHASS
GK	HUM	HI 307	Jewish History	CHASS
IP		HI 321	Ancient and Medieval Science	CHASS
GK	HUM	HI 332	Germany and the World Wars	CHASS
GK	HUM	HI 338	Empire, War, and Revolution in Russia	CHASS
GK	HUM	HI/REL 402	Early Christianity to the Time of Eusebius	CHASS
HUM		HI 403	Ancient Greek Civilization	CHASS
HUM		HI 404	Rome to 337 AD	CHASS
HUM		HI 405	History and Archeology of the Roman Empire	CHASS
HUM		HI 406	From Roman Empire to Middle Ages	CHASS
HUM		HI 409	The High Middle Ages	CHASS
GK	HUM	HI 410	Italian Renaissance	CHASS
GK	HUM	HI 411	Trials of Faith: Religions Reformation in Early Modern Europe	CHASS
GK	HUM	HI 412	The Sexes and Society in Early-Modern Europe	CHASS
GK	HUM	HI 414	From Kings to Revolution: the History of Early-Modern France	CHASS
GK	HUM	HI 415	The French Revolution	CHASS
GK	HUM	HI 418	Fascist Italy and Nazi Germany	CHASS
GK	HUM	HI 419	Modern European Imperialism	CHASS

<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM	HI 421	European Intellectual History of the 18th Century	CHASS
GK	HUM	HI 422	European Intellectual History of the 19th Century	CHASS
GK	HUM	HI 423	Women in European Enlightenment	CHASS
GK	HUM	HI 425	Tudor and Stuart England	CHASS
GK	HUM	HI 429	20th Century Britain	CHASS
GK	HUM	HI 430	Modern France	CHASS
		HI 437	Topics in Central and East European History	CHASS
GK	IP	HI 483	Science and Religion in European History	CHASS
GK	IP	HI 484	Sicence in European Culture	CHASS
GK	VPA	MUS 201	Introduction to Music Literature I	DASA
GK	VPA	MUS 202	Introduction to Music Literature II	DASA
GK	VPA	MUS 310	Music of the 17th and 18th Centuries	DASA
GK	VPA	MUS 315	Music of the 19th Century	DASA
GK	SS	PS 341	European Politics	CHASS
GK	HUM	REL/HI 402	Early Christianity to the Time of Eusebius	CHASS

# Modern Global Issues

Students must complete four courses, with at least one and a maximum of two from this category to be applied to the GPC. For questions about the approval of courses not listed, please contact the GPC Coordinator at [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu)

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- MP: Mathematical Sciences
- NS: Natural Sciences
- SS: Social Sciences
- USD: US Diversity
- VPA: Visual & Performing Arts

GEP					
	GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
			AGI 194	International Learning Experience in the Agricultural Institute	CALS
GK			ALS 494	International Learning Experience in Agriculture and Life Sciences	CALS
GK	SS		ANT 252	Cultural Anthropology	CHASS
GK	SS		ANT 253	Unearthing the Past: Introduction to World Archeology	CHASS
USD	SS		ANT 254	Language and Culture	CHASS
			ANT 374	Disease and Society	CHASS

GEP			PREFIX/NUMBER	COURSE NAME	COLLEGE
			ANT 431	Tourism, Culture and Anthropology	CHASS
			ANT 433	Anthropology of Ecotourism and Heritage Conservation	CHASS
			ANT 450	Culture, Ecology, and Sustainable Living	CHASS
			ANT 464	Anthropology of Religion	CHASS
GK	IP	SS	ANT/SOC 261	Technology in Society and Culture	CHASS
			ANT/WGS 444	Cross-cultural Perspectives on Women	CHASS
VPA			ARC 140	Experiencing Architecture	Design
VPA			ARC 241	Introduction to World Architecture	Design
			ARC 289	Architectural Travel Study I	Design
			ARC 490	Architecture International Studio	Design
			ARE 194	International Agribusiness Management Study Abroad	CALS
GK			ARE 345	Global Agribusiness Management	CALS
GK			ARE 494	Agribusiness Study Abroad	CALS
GK	VPA		ARS 251	The Arts of a World Capital: London	CALS

<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	VPA		ARS 353	Arts and Cross-Cultural Contacts	CALS
			BUS 426	International Financial Management	PCOM
			BUS 464	International Marketing	PCOM
GK			COM 447	Communication and Globalization	CHASS
GK	SS	USD	COM/HSS 392	International Cross-Cultural Communication	CHASS
GK	IP	NS	CS 224	Seeds, Biotechnology and Societies	CALS
GK	IP		CS 230	Introduction to Agroecology	CALS
IP			D 102	Design Culture and Context I	Design
IP			D 103	Design Culture and Context II	Design
VPA			DS 101	History of Design I, From Before Apple to Xia Gui	Design
			EC 348	Introduction to International Economics	PCOM
GK			EC 449	International Finance	PCOM
GK	HUM		ENG/FL 219	Studies in Great Works of Non-Western Literature	CHASS
GK	HUM		ENG/FL 223	Contemporary World Literature I	CHASS
GK	HUM		ENG/FL 224	Contemporary World Literature II	CHASS
GK	HUM		ENG/FL 392	Major World Authors	CHASS



<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM		ENG/FL 394	Sutides in World Literature	CHASS
GK	IP	NS	ENT 207	Insects and Human Disease	CALS
GK	HUM		FL/ENG 219	Studies in Great Works of Non-Western Literature	CHASS
GK	HUM		FL/ENG 223	Contemporary World Literature I	CHASS
GK	HUM		FL/ENG 224	Contemporary World Literature II	CHASS
GK	HUM		FL/ENG 392	Major World Authors	CHASS
GK	HUM		FL/ENG 394	Sutides in World Literature	CHASS
IP			FOR 248	Forest History, Technology and Society	CNR
GK	IP		FOR 414	World Forestry	CNR
			FTM 483	Global Trade & Sourcing	Textiles
			FTM 494	International Industrial Internship in Textile Management	Textiles
GK	IP	NS	FW 221	Conservation of Natural Resources	CNR
			FW 460	International Wildfire Management and Conservation	CNR
VPA			GD 203	History of Graphic Design	Design
GK	SS		GEO/SOC 220	Cultural Geography	CHASS/Education
			GPH 201	Global Health and Physiology	COS

<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	HUM		HI 233	The World Since 1750	CHASS
HUM			HI 335	The World At War	CHASS
GK	HUM		HI 381	NGO Nonprofits in a Global Context	CHASS
HUM			HI 454	History of US Foreign Relations, 1900 to Present	CHASS
GK	SS	USD	HSS/COM 392	International Cross-Cultural Communication	CHASS
IP			IDS/NR 303	Humans and the Environment	CHASS/CNR
GK	IP		IS 200	Introduction to International Studies	CHASS
			IS 393	Intermediate Seminar in International Studies	CHASS
			IS 491	Senior Seminar in International Studies	CHASS
			LAR 222	Perception and Behavior for Designers	Design
VPA			LAR 444	History of Landscape Architecture	Design
			LAR 465	Landscape Architecture International Studio	Design
NS			MB 200	Microbiology and World Affairs	COS
			MEA 476	Worldwide Rivers & Delta Systems: Their Evolution & Human Impacts	COS

<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK	IP	VPA	MUS 200	Understanding Music: Global Perspectives	DASA
IP			NR/IDS 303	Humans and the Environment	CHASS/CNR
			NR 350	International Sustainable Resource Use	CNR
IP			PB 213	Plants and Civilization	CALS
IP			PB 219	Plants in Folklore, Myth and Religion	CALS
HUM			PHI 420	Global Justice	CHASS
			PRT 430	Tourism, Poverty, and Health	CNR
GK	IP		PRT 449	Human Dimensions of Natural Resources in Australia/New Zealand	CNR
GK	IP		PRT 450	Sustaining Natural Resources in Australia/New Zealand	CNR
SS			PS 203	Introduction to Non-Profits	CHASS
GK	SS		PS 231	Introduction to International Relations	CHASS
GK	SS		PS 236	Issues in Global Politics	CHASS
GK	SS		PS 241	Introduction to Comparative Politics	CHASS
SS			PS 331	US Foreign Policy	CHASS
GK	SS		PS 335	International Law	CHASS
GK	SS		PS 336	Global Environmental Politics	CHASS

<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
GK			PS 339	Politics of the World Economy	CHASS
GK			PS 431	The UN and Global Order	CHASS
GK			PS 433	Global Problems and Policies	CHASS
			PS 445	Comparative Systems of Law and Justice	CHASS
IP			PSE 220	From Papyrus to Plasma Screens: Paper and Society	CNR
GK	HUM		REL 210	Religious Traditions of the World	CHASS
HUM	SS		REL/SOC 309	Religion and Society	CHASS
GK	HUM		REL 340	Islam	CHASS
HUM			REL/WGS 472	Women and Religion	CHASS
			REL/WGS 473	Religion, Gender & Reproductive Technologies	CHASS
GK	HUM		REL 383	Religion, Globalism, & Justice	CHASS
GK	HUM		REL 482	Religion and Conflict	CHASS
GK	HUM		REL 489	Interpretation of Religion	CHASS
IP			SMT 232	Recycling to Create a Sustainable Environment	CNR
SS	USD		SOC 203	Current Social Problems	CHASS
SS			SOC 205	Jobs and Work	CHASS
GK	SS		SOC/GEO 220	Cultural Geography	CHASS/Education

<b>GEP</b>	<b>GEP</b>	<b>GEP</b>	<b>PREFIX/NUMBER</b>	<b>COURSE NAME</b>	<b>COLLEGE</b>
SS			SOC 241	Sociology of Agriculture and Rural Society	CHASS
GK	IP	SS	SOC/ANT 261	Technology in Society and Culture	CHASS
SS			SOC 311	Community Relations	CHASS
GK	SS		SOC 342	International Development	CHASS
GK	SS		SOC 351	Population and Planning	CHASS
HUM	SS		SOC/REL 309	Religion and Society	CHASS
			SOC 402	Urban Sociology	CHASS
			SOC 414	Social Class	CHASS
			SOC 440	Social Change	CHASS
			SOC 445	Inequality, Ideology, and Social Justice	CHASS
			SOC 450	Environmental Sociology	CHASS
IP			SSC 185	Land and Life	CALS
GK	IP		STS 302	Contemporary Science, Technology, & Human Values	CHASS
IP			STS 322	Technological Catastrophes	CHASS
GK	IP		STS 323	World Population and Food Prospects	CHASS
IP			STS 402	Peace and War in the Nuclear Age	CHASS
IP			WGS 224	Contemporary Issues in Ecofeminism	CHASS

GEP	GEP	GEP	PREFIX/NUMBER	COURSE NAME	COLLEGE
IP			WGS 330	Women & Health	CHASS
			WGS/ANT 444	Cross-cultural Perspectives on Women	CHASS
HUM			WGS/REL 472	Women and Religion	CHASS
			WGS/REL 473	Religion, Gender & Reproductive Technologies	CHASS

# GPC Capstone Project

Students must complete:

- a capstone/final project that synthesizes their experience with the GPC.
- the final project must address 5 thematic questions

## Final Project Requirements

### Project Format Guidelines

#### **Option 1: Reflection Paper**

- 5 – 10 pages (not including cover sheet and references)
- Double spaced
- Times New Roman
- 12 point font
- 1-inch margins all around
- MS Word or PDF format

All files must be upload to Moodle by the last day of class.

Public presentation not required.

#### **Option 2: Presentation\***

- 20 – 30 minutes (including audience questions)
- Delivered in a public setting
- Presentation file in PowerPoint or PDF
- Presentation narrative (speaker notes) uploaded to Moodle in MS Word or PDF format
- Presentation date, time, location, and audience information uploaded to Moodle
- Picture of Video of Presentation uploaded (if not participating in GPC Presentation Day).

All files must be upload to Moodle by the last day of class.

#### **Option 3: Short Film or Video\***

- 7 – 10 minutes run time.
- Published on a public platform such as YouTube



# GPC Capstone Project

- Video file uploaded to Moodle
- Video narrative (script, speaker notes, etc.) uploaded to Moodle in MS Word or PDF format
- Video link uploaded to Moodle

All files must be upload to Moodle by the last day of class.

## **Option 4: Website or Blog**

- Minimum of 5 posts
- Published on a public platform
- Link to public site uploaded on Moodle

All files must be upload to Moodle by the last day of class.

## **Option 5: Academic Poster\***

- 1 academic poster
- Presented in a public setting
- Academic poster file in PowerPoint or PDF
- Presentation narrative (speaker notes) uploaded to Moodle in MS Word or PDF format
- Presentation date, time, location, and audience information uploaded to Moodle
- Picture of Video of Presentation uploaded (if not participating in GPC Presentation Day).

All files must be upload to Moodle by the last day of class.

- Resources
  - [Creating effective poster presentations](#)
  - [NCSU Research Poster Template](#) (optional, towards the end of page)

## **Option 6: Student's Creative Choice**

- May be a combination of media such as short story, art exhibit/installation, etc.
- Please consult with GPC Coordinator for specific guidelines and deliverables

All files must be upload to Moodle by the last day of class.

# GPC Capstone Project

## Option 6: Student's Creative Choice

- May be a combination of media, short story, photo gallery exhibit/installation, etc
- Please consult with the GPC Coordinator for guidelines on required deliverables

**\*NOTE:** For projects that are submitted in any format **other than** a paper must include notes and written talking points along with the presentation or media display for grading. This narrative needs to articulate the depth of the student experience and provide the context that may not be directly addressed through slides, photos, or media displays within the presentation. In other words, this document articulates the connection between your experiences and the 5 thematic questions posed for the final project. Presentations or displays should also include captions for all photos.

## 5 Thematic Questions

1. How do the international experiences you have gained while pursuing the Global Perspectives Certificate complement and enhance your academic program (major/minor and other course work) and campus life (living/learning villages, clubs and student organizations, volunteer work)?
2. Reflect on your experiences abroad, coursework, co-curricular and service activities. What are the “linear themes” you have learned that connect these opportunities? How have they helped you understand the interconnectedness of the world and global affairs? Provide examples.
3. What were your perceptions about cultural values and norms in other countries before you began your international experiences? How do they compare to your own culture and U.S. culture? How have they changed your feelings and behavior in situations with people from other cultures? Include specific examples.
4. Why do you think it is important for students to “internationalize” their studies and everyday lives? How will you continue to do so in the future?
5. How have the experiences and insights you have gained changed the way you see your own role in this global society?

# Declare Your Capstone Project

If you are planning on completing your GPC capstone project this semester, please complete this form no later than October 1. Please note all projects must be made available to the wider community in some way, such as via the internet (website), presentation, or a larger exhibition.

Your email address (**kkharris@ncsu.edu**) will be recorded when you submit this form. Not you? [Switch account](#)

\* Required

First Name \*

Your answer

Last Name \*

Your answer

Student ID Number \*

Your answer

Title of Capstone Project \*

This does not have to be the final title of your project.

Your answer



## Project Format \*

- ☐ Reflection Paper
- ☐ Presentation
- ☐ Short Film/Video
- ☐ Website/Blog
- ☐ Academic Poster
- ☐ Other:

Please provide a sample answer to at least one of the 5 GPC Thematic Questions found on the GPC Capstone Project page. \*

Please note all 5 questions must be addressed in your completed capstone project. GPC Capstone Project Page: <https://gpc.dasa.ncsu.edu/certificate-requirements/final-project/>

Your answer

The GPC will be hosting a presentation day for students looking to present their capstone projects on Wednesday, December 11 from 1:00 - 3:00 PM. Would you like to participate in this event?

- ☐ Yes
- ☐ No

☐ Send me a copy of my responses.

Submit

Never submit passwords through Google Forms.



This form was created inside of North Carolina State University. [Report Abuse](#)



# Google Forms



Student: \_\_\_\_\_  
 Faculty Mentor: \_\_\_\_\_  
 Date: \_\_\_\_\_

**NC State University**  
 Global Perspectives Certificate  
 Final Project Rubric

Criteria	Unacceptable	Does Not Meet Expectations (improvements requested)	Meets Expectations	Exceeds Expectations	Exemplary
Summarizes GPC experiences (course work, international experience, co-curricular, service) with reference to how they relate to <b>academic program</b> (course work, majors/minors) or <b>campus life</b> (living/learning villages, clubs, volunteer work)	No evidence of connections between GPC experiences and academic program or life at NC State	Writing lacks detail, may include connections of GPC experiences to academic program or life at NC State	Writing quality is adequate to express meaning; includes examples from more than one certificate category, with explicitly stated relevance to academic program <b>OR</b> campus life	Writing quality is adequate to express meaning; includes examples from more than one certificate category, with explicitly stated relevance to academic program <b>AND</b> campus life	Effectively depicts vivid examples from each certificate category, with convincing connections made to academic program <b>AND</b> campus life
Provides a thread or theme to connect GPC experiences.	Does not make connections between experiences	Makes some connections between experiences	Identifies theme(s) clearly, but with limited further development	Identifies theme(s) and clarifies with examples, but does not apply critical thinking	Applies critical thinking to relate specific examples to the identified theme(s), including analysis or comparative examples
Shows awareness of global issues	Does not indicate awareness of global issues	Demonstrates superficial awareness and simplified judgments	Demonstrates awareness, but with limited supporting evidence; may only partially address viewpoints of others	Supports views with some evidence from personal and secondary sources; addresses more than one viewpoint	Applies critical thinking to support views with specific personal and secondary sources; addresses more than one viewpoint

Faculty mentors should submit a completed rubric to [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu) as well as a copy to the student with feedback.

Student: \_\_\_\_\_

Criteria	Unacceptable	Does Not Meet Expectations (improvements requested)	Meets Expectations	Exceeds Expectations	Exemplary
Demonstrates insights about other cultures and intercultural competence	Does not address insights gained about other cultures	Addresses only surface features of other cultures (food, arts, basic current issues, language); generalizes other cultures as only good or bad	Includes general examples of values, assumptions, or social norms that are not casually observable (nonverbal communication, conceptions of self, behaviors, humor) in other cultures in comparison to American culture	Includes values, assumptions, or social norms that are not casually observable, recognizing that both commonalities and genuine differences exist, and that no culture is superior or inferior overall	Includes specific examples to the values, assumptions, or social norms of other cultures to American culture; demonstrates some adaptability, flexibility, ethnorelative view, or empathy
Summarizes certificate experiences with reference to how they relate to <b>career plan</b> or <b>future life</b> interests.	No evidence of connections between GPC experience and career plan or life interests	Writing lacks detail, may include connections to career or future life interests	Writing quality is adequate to express meaning; includes examples from more than one certificate category, with explicitly stated relevance to career plan <b>OR</b> life interests	Writing quality is adequate to express meaning; includes examples from more than one certificate category, with explicitly stated relevance to career plan <b>AND</b> life interests	Effectively depicts vivid examples from each certificate category, with convincing connections made to career plan <b>AND</b> life interests
Illustrate the impact of GPC experiences on you and your own role in this global society	Shows no impact of experiences on self or others	Shows limited impact of experiences on self	Clearly shows impact of experiences on self	Clearly shows impact of experiences on self and a recognition of the reciprocal nature of service	Clearly expresses impact to self and reciprocal impact of service to self and others, and places the experience in its larger context

Faculty mentors should submit a completed rubric to [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu) as well as a copy to the student with feedback.



# Global Perspectives

## Description

The purpose of this certificate is to help students increase their awareness of global issues, apply their new insights to their academic concentrations, future career, and day-to-day life, and to contribute to the internationalization of our university. The program is open to undergraduate students of any major and class standing. Both domestic and international students at NC State are welcome to apply for the certificate. This certificate program will also help other university programs: it can lead to recruitment of degree-seeking students who are interested in international awareness, increase study abroad involvement in all Colleges, lead to more involvement in university-sponsored activities, create greater diversity, and promote more social tolerance and acceptance on campus. The GPC may also encourage students to enroll in classes they are not likely to take otherwise.

Upon completion of the Global Perspectives Certificate, students will be able to demonstrate knowledge gained throughout their GPC experience and articulate how their various experiences contributed to their development as global citizens.

## Admissions Requirements

1. Students must be *degree-seeking* undergraduate students at NC State.
  - a. Students must be in good academic standing and have a minimum GPA of 2.0 for certificate courses overall.
2. To declare your intent to complete the certificate, please fill out and submit the [Global Perspectives Certificate Application](https://goo.gl/forms/GhRjmdBUcpc5hLI53) Google Form (<https://goo.gl/forms/GhRjmdBUcpc5hLI53>)
3. Once admitted, students should begin logging and tracking GPC requirement components via Moodle and their GPC degree audit.
4. Submit [Declare Final Project](https://goo.gl/forms/uo1T8c6Nd9SiT13j1) (<https://goo.gl/forms/uo1T8c6Nd9SiT13j1>) Google Form to declare your intent to begin working on your final project and completion of all GPC requirements.

## Program Requirements

Students must complete five components to receive the certificate:

1. International Experience
2. Academic Experience
3. Co-Curricular Activities
4. Volunteer Service Activities
5. Final Project

### International Experience:

This must take place in a country other than the US, and be educational in some way. Options could include study abroad, international internships, overseas volunteer programs, research abroad, being an international student in the U.S., or any other

international experience approved by the GPC Coordinator.

### **Academic Experience:**

To successfully complete this portion of the certificate, NC State students must be in good standing and achieve a minimum GPA of 2.0 overall for the required courses.

- A. **Language requirement:** Students must complete either the equivalent of FL 201 in the language in which they met the university foreign language requirement or at least three credit hours at any level of study in a new language. Non-native English speakers can substitute FLE 101 to meet this requirement.
- B. **Course requirement:** 12 credit hours, which may simultaneously fulfill GEP or other degree requirements. Four courses with a strong international emphasis must be chosen from three different categories:
  - a. [Asian, African, and Latin American Studies](#);
  - b. [European and Eurasian Studies](#);
  - c. [Modern Global Issues](#).

*Students may substitute a course with US multicultural emphasis in place of one of the required four courses.*

### **Co-curricular activities:**

Certificate recipients must engage in co-curricular activities totaling **at least 30 points** in the GPC system; whereas, one hour is worth roughly 1 point.

- Ten points may be awarded for semester-long commitment.
- Students may receive a **maximum of 7 points** for attending any single lecture or cultural event.
- Students may receive a **maximum of 15 points** for any one organization (e.g. Italian Club).

### **Volunteer Service:**

Students must complete at least **10 hours of volunteer service**. The volunteer service must have an international focus (e.g. volunteer English tutor, helping immigrants with taxes or visas). Community service may be completed in the US or in another country.

NOTE: Volunteering is active service to others, and is considered separate from attending an event or being part of an on-campus organization. Attending an event does not count toward volunteer hours. Students must complete 10 volunteer hours in addition to 30 points of co-curricular activities.

### **Final Project:**

Students must prepare a synthesizing project which answers the five (5) thematic questions below about their experience in pursuing the Global Perspectives Certificate. The project may consist of a poster, a paper, powerpoint presentation, video, website, physical display, or a combination of media.

Before beginning the project, the students must submit a [Declare Final Project](#) form. The GPC coordinator will work with the student to develop the project acting as their point of contact for advice, guidance, and assessment of the final project. Assessment will be based on the provided rubric. Projects will also be assessed by at least one other member of the NC State faculty.

Upon completion, final projects must be made available to the wider community in some way, such as being posted online or being presented on campus (classroom, residence hall, etc.).

### **Program Coordinator**

Kasey Harris, GPC Coordinator  
Email: [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu)  
Phone: (919) 513-1937  
Office: Park Shops, 211K  
Website: <http://gpc.ncsu.edu/>

### **Academic Structure**

Term Effective: 8/2019  
Plan Code: 02GPCTU, 32GPCTU, 24GPCTU  
CIP Code: 30.2001  
Description: Undergraduate Certificate in Global Perspectives  
Offered via on-campus format only



# Global Perspectives Certificate Application

Questions Responses 73

Section 1 of 5

## Global Perspectives Certificate



Thank you for your interest in the Global Perspectives Certificate!

Please be sure to review all our certificate requirements prior to completing this form.  
<https://gpc.dasa.ncsu.edu/certificate-requirements/>

If you have any questions regarding our certificate program or application, we invite you to set up a 30-minute meeting prior to submitting your application to discuss your interests and questions.

To request a meeting, please email [global-perspectives@ncsu.edu](mailto:global-perspectives@ncsu.edu)

This form is automatically collecting email addresses for North Carolina State University users. [Change settings](#)

First Name \*

Short answer text

Last Name \*

Short answer text

Student ID Number \*

Short answer text



After section 1 Continue to next section ▼

Section 2 of 5

## Academic Information



The GPC requires students complete academic course work in several internationally focused areas, including language study. Please complete the below portion of the application to give us a better idea on how to help you plan for success.

What is your major? \*

Short answer text

When do you intend to graduate (MM/YYYY)? \*

Short answer text

Are you a foreign language major/minor? \*

☐ Yes, major.

☐ Yes, minor.

☐ No

If you answered YES, please specify which language you are majoring/minoring in.

Short answer text



If you answered NO, what is your intended plan to accomplish our foreign language requirement?

Long answer text

After section 2 Continue to next section ▼

Section 3 of 5

## International Experience



The GPC requires all students to complete at least one international experience. This could include study abroad, international internships, overseas volunteer programs, research abroad, or being an international student in the U.S. The international experience must be completed while students are in college.

Have you completed at least one international experience? \*

☐ Yes

☐ No

☐ Unsure

If yes, where and when did you complete your international experience?

Long answer text

If no, do you currently have plans to complete an international experience?

☐ Yes



Unsure

After section 3 Continue to next section ▼

Section 4 of 5

## Co-curricular and Volunteer Service Activities

GPC participants must engage in domestic co-curricular activities that have an international focus, and requires students to engage in some form of volunteer service within the US or abroad.

Have you participated in any internationally focused co-curricular activities? \*

- ☐ Yes
- ☐ No
- ☐ Maybe

Have you participated in any internationally focused volunteer service activities. \*

- ☐ Yes
- ☐ No
- ☐ Maybe

After section 4 Continue to next section ▼





# Final Project and Acknowledgment



Students who successfully complete the GPC will complete the final project prior to graduating. Students will have a choice of completing an essay, poster, powerpoint, physical display, website, video, or combination of media depicting and reflecting on their overall experience with the GPC. After approval, some form of the project must be presented or made available to the public.

I understand I will be asked to complete a GPC final project, which must be presented publicly \*  
prior to completing the certificate.

☐ Yes

I understand that I must successfully complete all stated requirements in order to receive this \*  
certificate.

☐ Yes

I acknowledged I will be added to the GPC Moodle Project Space for tracking my certificate \*  
completion.

☐ Yes

I wish to be added to enroll in the Global Perspectives Certificate. \*

☐ Yes

How did you hear about the Global Perspectives Certificate?

☐ Classroom Presentation

☐ Electronic Billboard



Flyer

- ☐ Referral from faculty, staff, or student
- ☐ Study Abroad
- ☐ Website
- ☐ Other...





## MEMO

Date: April 14, 2020  
To: Bret Smith, Senior Interim Dean, University College  
From: Dr. Richard Warr, Associate Dean, Poole College of Management  
Subject: Changes to the Business Essentials Certificate

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The Poole College of Management would like to request that BUS 280 – Business Essentials be replaced by MIE 201 – Introduction to Business Processes in the Business Essentials Certificate. MIE 201 covers essentially the same content that was included in BUS 280 and is a course that is required for other Poole majors and minors. The college has determined that it is more efficient and better for students to only teach MIE 201 and remove BUS 280 as a course.

### Current Requirements for Business Essentials Certificate

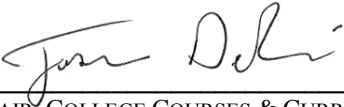
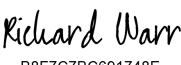
1. BUS 280: Business Essentials
2. ACC 280: Introduction to Financial and Managerial Accounting
3. Two elective courses selected from this list:
  - MIE 330: Human Resource Management
  - BUS 360: Marketing Methods
  - BUS 370: Operations Management
  - BUS 225: Personal Finance
  - ACC 230: Personal Income Tax

### Revised Requirements for Business Essentials Certificate

1. MIE 201 – Introduction to Business Processes
2. ACC 280: Introduction to Financial and Managerial Accounting
3. Two elective courses selected from this list:
  - MIE 330: Human Resource Management
  - BUS 360: Marketing Methods
  - BUS 370: Operations Management
  - BUS 225: Personal Finance
  - ACC 230: Personal Income Tax

This should have no impact on current or future students since they will be able to take MIE 201 during the fall, spring, or summer semesters and the course will be offered online during the summer. We will reserve seats or give preference to Business Essentials students in MIE 201 in the summer so they have access.

**ENDORSED BY:**

	APRIL 14, 2020
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE	DATE
DocuSigned by:	
	April 14, 2020
COLLEGE DEAN	DATE

**APPROVED BY:**

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE	DATE
CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION	DATE
DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS	DATE



Poole College of Management  
Office of Undergraduate Programs

poole.ncsu.edu

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

## MEMO

Date: April 13, 2020  
To: Bret Smith, Senior Interim Dean, University College  
From: Dr. Richard Warr, Associate Dean, Poole College of Management  
Subject: Human Resources Concentration Update

The Poole College of Management proposes to make a minor revision to the Business Administration Major – Human Resources Concentration (20BUSHR) concentration electives, effective Fall 2020. To help prepare students for the increasing use of data in the HR world the department would like to add the newly created MIE 437 – Human Resources Analytics course as a required course for the Human Resources Concentration.

Updated Format Bs and 8-Semester Plans are included with this memo.

### Current Concentration Requirements (2178)

#### Current (2178):

MIE 434 - Compensation Systems  
MIE 438 - Staffing  
Two from: MIE 432, 435, 436, 439

#### Proposed (2208):

MIE 434 - Compensation Systems  
**MIE 437 – HR Analytics**  
MIE 438 - Staffing  
**One** from: MIE 432, 435, 436, 439

### ENDORSED BY:

CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE

DATE

DocuSigned by:

88744AFD1A334DD...

April 14, 2020

DEPARTMENT HEAD, MIE

DATE

DocuSigned by:

COLLEGE DEAN

April 14, 2020

DATE

**APPROVED BY:**

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE

DATE

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION

DATE

DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS

DATE

# Business Administration (BS) – Human Resources Concentration: (20BUSHR)

Semester Display 4-14-20 (v2.7)

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



#### GPA Graduation Requirements:

Overall GPA for all courses attempted at NC State must be 2.0 or higher; and

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

1. Students should take M 100 their first semester in the program.
2. Must be completed with "C-" or better.
3. 7 credit hours-include one laboratory course or course with a lab from the GEP Natural Sciences list.
4. MA 131 or MA 141 are encouraged for students who qualify and aspire to take additional calculus. For students completing MA 141, one credit of MA141 will count as free elective credit.
5. Unless a placement exam is successfully completed, students are required to complete FL\_ 201 – the third semester of a foreign language (through the intermediate level). Students will not receive credit for courses below 102 unless starting a language different from their high school proficiency. Students who place beyond FL\_ 201 and choose not to take a foreign language course will have satisfied the foreign language requirement but will not receive hour credit.
6. 1 hour of Health & Exercise Studies at the 100 level.
7. MA 242 may substitute.
8. COM 110, 112, or 211.
9. Choose two courses from the GEP Humanities list; Students must also take one course from the Poole College of Management Ethics list- MIE 306, PHI 214, 221, 312, 375 (no credit hour requirement); If a student takes a PHI course to satisfy the Ethics requirement, it may double-count as the second humanities course provided the first course was not also a PHI course.
10. 1 hour of Health & Exercise Studies. (PEC, PEF, PEH, PEO and PES courses cannot be taken to satisfy this requirement.) (HES courses may be taken for credit or credit only.)
11. ARE 201 may substitute. The requirement must be met with C- or better.
12. ST 305, 312, 370 or 372 may substitute. The requirement must be met with C- or better.
13. BUS 320 has prerequisites of ACC 210 and EC 201. BUS 360 and MIE 330 have prerequisite of MIE 201.
14. Take one from the GEP Additional Breadth- Humanities/Social Sciences/Visual Performing Arts list.
15. ENG 331, 332, 333.
16. Some courses will not count as free electives, such as FL 101, or 105 (in the language in which proficiency requirement is met), or MA 101, 103, 105. (12 hours of free electives may be taken for credit only.)
17. Choose one course from the GEP Interdisciplinary Perspectives list. For students completing a three-credit IP course, one credit will count in free electives.
18. Students in the Human Resources concentration should take MIE 434, 437, and 438 and one of: MIE 432, 435, 436, or 439

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

# CURRICULUM REQUIREMENTS

## Format B

<u>Degree/Plan Title:</u> B.S. Business Administration	<u>Plan SIS Code:</u>
<u>Concentration/Subplan Title:</u> BUS-Human Resources, Subplan	<u>SIS Code:</u>
<u>Indicate requirements status:</u> Current:                      Proposed: x <u>Proposed</u> Effective Semester: Fall 2020	
<u>New Degree Audit required?</u> (Y or N) Y	
<u>Critical Path Courses</u> - Identify using the code (CP) which courses are considered critical path courses which represent specific major requirements that are predictive of student success in a given program/plan. Place the (CP) next to the credit hours for the course.	

MAJOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	<i>GEP category, if applicable</i>
Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.		List GEP category and hours satisfied by a Major requirement
Math MA 121 or 131 or 141 (C- or better); MA 114 (MA 114 or 242)	6	Mathematics (6 hours)
Major (non- ACC/BUS/MIE)		
Advanced Writing (ENG 331, 332, 333)	3	Advanced Communication (3 hours)
EC 201 (EC 201 or ARE 201) (C- or better)	3	Social Sciences (3 hours)
EC 202	3	
PSY 200	3	Social Sciences (3 hours)
FL 201	3	
Communication/Speech (COM 110, 112, 211)	3	
ST 307	1	
Major (ACC/BUS/MIE)		
BUS/ST 350 (ST 305, 312, 370, 372) (C- or better)	3	Technology Fluency (3 hours)
BUS/ST 351	3	
BUS 320	3	
BUS 340	3	Technology Fluency (3 hours)
BUS 360	3	
BUS 370	3	
MIE 201	3	Interdisciplinary Perspectives (3 hours)
MIE 305	3	
MIE 310	3	
MIE 330	3	
MIE 480	3	
ACC 210 (C- or better)	3	
ACC 220 (or ACC 200) (C- or better)	3	
<b><u>Concentration Courses/Groups/Electives:</u></b>		
Human Resources: MIE 434, 437, and 438; and one from MIE 432, 435, 436, 439	12	
<b><u>Free Electives:</u></b>		
May not be MA 101, 103, 105, or FL 101 or 105 (in the language in which proficiency is met)	19	This assumes students complete a 2 hr Interdisciplinary Perspectives course
<b><u>Total credit hours under Major Field of Study:</u></b> <i>Minimum 27 hours required in program area.</i>	95 hours	

COLLEGE REQUIREMENTS:		
<b>Orientation Course(s):</b> M 100	1	U.S. Diversity Corequisite
<b>Other:</b> Ethics Corequisite One from the following: MIE 306, PHI 214, 221, 312, 375	0	
<b>Total credit hours under College Requirements:</b>	96 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"> <li>Choose course(s) from the University Approved GEP course list for this category.</li> <li>Minimum requirements are satisfied by Major/College course requirements.</li> <li>Major/College course requirement satisfies <b>X</b> credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.</li> <li>Co-requisite is satisfied by a Major/College course requirement.</li> <li>Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual &amp; Performing Arts.</li> <li>Choose course(s) from the University Approved GEP course lists for Natural Sciences/Mathematical Sciences.</li> </ol>
General Education Program Requirements:	Credit hours	How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)
Minimum 39-40 hrs		
<b>Mathematical Sciences</b> (6 credits) (At least 1 course with MA or ST prefix) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	X	7 (Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
<b>Natural Sciences</b> (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	8 (Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
<b>English 101 (C- or better required)</b> (4 credits)	4	ENG 101
<b>Humanities</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	9 (Choose statement 1, 2 or 3) Choose course(s) from the University Approved GEP course list for this category.
<b>Social Sciences</b> (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	10 (Choose statement 1, 2 or 3) Minimum requirements are satisfied by Major/College course requirements.
<b>Additional Breadth</b> (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) 11 Choose course(s) from the University Approved GEP course lists for the Humanities/ Social Sciences/ Visual & Performing Arts.
<b>Interdisciplinary Perspectives</b> (5 credits) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	2	12 (Choose statement 1, 2 or 3) Major/College course requirement satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Health and Exercise Studies</b> (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	24 hours	
<b>GEP Co-Requisites:</b>		<b>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.</b>
<b>U.S. Diversity co-requisite</b> (USD)	n/a	13 (Choose statement 1 or 4) Co-requisite is satisfied by a Major/College course requirement.

<b>Global Knowledge co-requisite</b> (GK)	n/a	14 <i>(Choose statement 1 or 4)</i> Choose course(s) from the University Approved GEP course list for this category.
<b>Foreign Language Proficiency</b>	n/a	FL 201 required.
<b>The following requirements must be satisfied within the College/Program:</b>	x	Place an <b>X</b> in the credit hour box to indicate below that the requirement is <b>"Satisfied by College/Program Requirements"</b>
<b>Communication in the Major (Advanced Communication)</b>	x	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	x	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	120 Total hours	<b>As applicable, indicate here the overall GPA requirement for degree completion including course completion.</b>



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## MEMO

Date: March 20, 2020  
To: Bret Smith, Senior Interim Dean, University College  
From: Dr. Richard Warr, Associate Dean, Poole College of Management  
Subject: Minor change to M 100 degree requirement for Poole Degrees

The Poole College of Management would like to request that the degree audits for Business Administration (20BUSBS) and Accounting (20ACCBS) for requirement terms 2171 and 2178, and the degree audit for Economics BA (20ECONBA) for requirement term 2171 be updated to reflect that M 100 must be completed with a passing letter grade.

M 100, a required first year course for all students in these majors was revised in fall 2017 and currently must be taken for a grade; S/U is not an option. However, we missed the degree requirement that has "S Allowed" for M 100 (see the screenshot below). So although students can't take M 100 S/U, they frequently ask about it since their audit says the requirement can be completed with an S. This was an oversight, so we would like to require that M 100 be taken for a grade in these curricula since that is the only option for that course.


6 - Major Requirements (Non-Acc)					
	Description	Class	Term	Grade	Units
10	Pers and Prof Identity Dev	M 100			1.000
	S Allowed				

This should have no impact on current or future students since they are unable to register for M 100 as S/U, but will significantly reduce confusion for students trying to figure out how they can fulfill the M 100 degree requirement.

## ENDORSED BY:

  
\_\_\_\_\_  
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE

APRIL 9, 2020  
\_\_\_\_\_  
DATE

DocuSigned by:  
  
\_\_\_\_\_  
COLLEGE DEAN

April 14, 2020  
\_\_\_\_\_  
DATE

**APPROVED BY:**

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE	DATE
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CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION	DATE
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DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS	DATE
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March 16, 2020

MEMORANDUM

TO: University Courses and Curricula Committee

FROM: Prof. David Brown, Director of Undergraduate Programs, Department of Physics

RE: Curriculum Revisions for 17PHYSBS and 17PHYSBA

Currently, in the BA (17PHYSBA, Summer 1 2019) and BS (17PHYSBS, Summer 1 2019) degrees in Physics, there is a requirement for PY 452 Advanced Physics Laboratory. This course is a capstone experience for seniors. A second, alternate capstone course has been trialed for the past 3 years as a Special Topics course and has now been formally proposed to be permanently established: PY 456 Senior Design Project in Physics.

Proposed Revision: We would like to convert the current requirement for 'PY 452 Advanced Physics Lab' in the Physics category of the above mentioned degree plans to be a choice between PY 452 and PY 456 labeled 'Advanced Experimental Physics'.

Impact: This change has no impact on other departments/programs or on currently enrolled students.

Attached: Degree requirements (Format A & B) for 17PHYSBS and 17PHYSBA with proposed revisions indicated.

SIGNATURES (AS REQUIRED):

Date: 2020.03.21

13:37:32 -04'00'

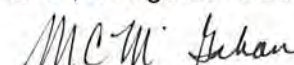
Head, Dept. of Physics

Date

 3/31/2020

Chair, College Curriculum Committee

Date

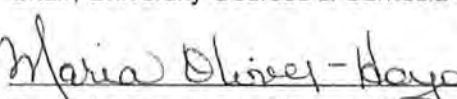
 4/16/2020

College of Sciences Dean

Date

PROPOSED EFFECTIVE DATE: Fall 2020

Chair, University Courses & Curricula Committee Date

 04/10/2020  
Dean, Academic and Student Affairs Date

APPROVED EFFECTIVE DATE: \_\_\_\_\_

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

Indicate display status: Current: Proposed: X

Proposed Effective Semester: Fall 2020Degree/Plan Title: Bachelor of Arts in PhysicsConcentration/Subplan Title:Plan SIS Code: 17PHYBASubplan 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
PY 201 University Physics <sup>1</sup>	4 (CP)	PY 202 University Physics II <sup>1</sup>	4 (CP)
MA 141 Calculus I <sup>2</sup>	4 (CP)	MA 241 Calculus II <sup>2</sup>	4 (CP)
ENG 101 Academic Writing and Research <sup>H</sup>	4	CH 101 Chemistry-A Molecular Science <sup>3</sup>	3
HES_*** Health & Exercise Studies <sup>E</sup>	1	CH 102 General Chemistry Laboratory <sup>3</sup>	1
COS 100 Science of Change <sup>G</sup>	2	GEP Humanities Elective <sup>C</sup>	3
	<b>Total: 15</b>		<b>Total: 15</b>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PY 203 University Physics III <sup>1</sup>	4 (CP)	PY 411 Mechanics I <sup>1</sup>	3 (CP)
PY 251 Introduction to Scientific Computing <sup>2</sup>	3	PY 252 Instrumental and Data Analysis <sup>1</sup>	2
MA 242 Calculus III <sup>2</sup>	4 (CP)	MA 341 Applied Differential Equations I <sup>2</sup>	3
Restricted Elective <sup>8</sup>	3	GEP Social Sciences Elective <sup>D</sup>	3
HES_*** Health & Exercise Studies <sup>E</sup>	1	Technical Elective <sup>3,8</sup>	1
		Free Elective	3
	<b>Total: 15</b>		<b>Total: 15</b>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PY 414 Electromagnetism I <sup>1</sup>	3	PY 401 Quantum Physics I <sup>1</sup>	3
MA 405 Linear Algebra <sup>2</sup>	3	Computing/Numerical Methods <sup>2,7</sup>	3
Advanced Writing <sup>6</sup>	3	Statistics <sup>2,5</sup>	3
GEP Interdisciplinary Perspectives <sup>G</sup>	3	GEP Humanities Elective <sup>C</sup>	3
Technical Elective <sup>3,8</sup>	3	Technical Elective <sup>3,8</sup>	3
	<b>Total: 15</b>		<b>Total: 14</b>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
<b>PY 452 Advanced Physics Lab <sup>4</sup></b>	<b>3</b>	PY 413 Thermal Physics <sup>1</sup>	3
<b>Advanced Experimental Physics <sup>1,10</sup></b>	<b>3</b>	GEP Additional Breadth HSS-VPA <sup>F</sup>	3
Basic Science Elective <sup>3,4</sup>	3	Technical Elective <sup>3,8</sup>	3
GEP Social Sciences Elective <sup>D</sup>	3	Restricted Elective <sup>8</sup>	3
Technical Elective <sup>3,8</sup>	3	Free Elective	3
Free Elective	3		
	<b>Total: 15</b>		<b>Total: 15</b>
Minimum Credit Hours Required for Graduation*: 120			

**Major/Program Footnotes:**

- At most one passing grade below C- is permitted in the Physics category.
- At most one passing grade below C- is permitted in the Math/Statistics/Computing category.
- At most one passing grade below C- is permitted in the Sciences/Technical Electives category.
- Basic Sciences: select from BIO 165, BIO 181, BIO 183, BME 203, CH 201, CH 202, CH 203, CH 204, CH 220, CH 222, CHE 205, GN 301, MAE 214, MEA 101, MEA 110, MEA 200, MEA 210, MEA 215, MEA 220, MSE 200, MSE 201, MSE 203, NE 202, PCC 203, TE 200
- Statistics course must be at the 300 level or above.
- Advanced Writing: select from ENG 331, ENG 332, ENG 333.
- Computing/Numerical Methods: select from CSC 302, CSC 427, CSC 428, MA 402, MA 427, MA 428, PY 525.



8. Restricted Electives: select courses from the GEP Humanities list, GEP Social Sciences list, GEP Visual and Performing Arts list, and from courses at the 200 level or above in Education or Management.
9. Technical Electives are courses at the 300 level or above in science, mathematics, technology, engineering, and in math and science education.
10. Advanced Experimental Physics: select from PY 452, PY 456

**\*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: **PY 201, CH 101**
- 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: **None**
- E. **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)  
Choose from the University approved GEP Physical Education/Healthy Living course list.
- F. **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)  
  X   Humanities/Social Sciences/Visual and Performing Arts or        Mathematical Sciences/Natural Sciences/Engineering
- G. **Interdisciplinary Perspectives** (5-6 credit hours)  
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **COS 100**
- 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.

<u>Degree/Plan Title:</u> Bachelor of Arts in Physics	<u>Plan SIS Code:</u> 17PHYSBA
<u>Concentration/Subplan Title:</u> N/A	<u>Subplan SIS Code:</u> N/A
<u>Indicate requirements status:</u> Current:      Proposed: X	<u>Proposed Effective Semester:</u> Fall 2020
<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
<b><u>PHYSICS*</u></b>		
PY201 University Physics I	4 (CP)	Natural Sciences (4 credits)
PY202 University Physics II	4 (CP)	
PY203 University Physics III	4 (CP)	
PY252 Instrumental and Data Analysis	2	
PY401 Quantum Physics I	3	
PY411 Mechanics I	3 (CP)	
PY413 Thermal Physics	3	
PY414 Electromagnetism I	3	
PY452 Advanced Physics Lab - Advanced Experimental Physics (PY452, PY456)	3	Communication in the Major
<b><u>Math/Statistics/Computing*</u></b>	4 (CP)	Mathematical Sciences (4 credits)
MA141 Calculus I	4 (CP)	Mathematical Sciences (4 credits)
MA241 Calculus II	4 (CP)	
MA242 Calculus III	3	Technology Fluency
PY251 Introduction to Scientific Computing	3	
Statistics (any ST300+ course)	3	
MA341 Applied Differential Equations I	3	
MA405 Linear Algebra	3	
Computing/Numerical Methods (CSC302, CSC427, CSC428, MA402, MA427, MA428, PY525)		
<b><u>Chemistry/Basic Sciences/Technical Electives*</u></b>	3	Natural Sciences (3 credits)
CH101 Chemistry – A Molecular Science	1	
CH102 General Chemistry Laboratory	3	
Basic Sciences (BIO165, BIO181, BIO183, BME203, CH201, CH202, CH203, CH204, CH220, CH222, CHE205, GN301, MAE214, MEA101, MEA110, MEA200, MEA210, MEA215, MEA220, MSE200, MSE201, MSE203, NE202, PCC203, TE200)	13	
Technical Electives (Any course at the 300 through 500 levels with prefix: AA, AES, ANS, AEC, BCH, BIO, BAE, BEC, BMA, BME, BBS, BIT, MBA, BUS, CHE, CH, CE, CBS, CSC, CS, EGR, ECO, EC, ECE, E, EGM, ENT, EA, ES, ET, FIM, FW, FS, FSA, FOR, GN, GIS, ECG, ID, ISE, LOG, MEA, MSE, EMS, MA, MAE, MES, MT, MB, NW, NE, NTR, OR, PSE, PY, PHY, PB, PP, PCC, PO, SSC, ST, SMT, TC, TE, TMS, TT, TOX, WPS, ZO , excluding: MA302, MA303, MA331, MA341, MA405 , PY401, PY407, PY411, PY413, PY414, PY452, PY501, PY511, PY514, PY581, PY582)		

<p>At most one grade below C- is permitted in each of the above categories.</p> <p>*At most one passing grade below C- is allowed in each of the three categories: Physics, Math/Statistics/Computing, and Chemistry/Basic Sciences/Technical Electives.</p> <p><b>Advanced Writing</b> (ENG331, ENG332, ENG333)</p> <p><b>Restricted Electives</b> (courses from GEP Humanities GEP Social Science and GEP Visual and Performing Arts lists, and courses at the 200 through 400 levels with prefix: ECD, ECI, ED, EDP, ELM, ELP, EMS, TED, TDE, ACC, BUS, EC, M, MIE)</p>	<p>3</p> <p>6</p>	
<b><u>Concentration Courses/Groups/Electives:</u></b>		
<b><u>Free Electives:</u></b>	9	
<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	94 hours	
<b>COLLEGE REQUIREMENTS:</b>		
Orientation co-requisite (Verify) : COS 100		
<b><u>Other:</u></b>		
<b>Total credit hours under College Requirements:</b>	0 Hours	

<b>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</b>  <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>  <b>Specific courses should not be listed in any of the fields below other than ENG 101.</b>		<b>At least one of the following must be listed:</b> 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 <b>X</b> 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.
<b>General Education Program Requirements:</b> Minimum 39-40 hrs	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <b>(Choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (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.		(Choose statement 1, 2 or 3)  2
<b>Natural Sciences</b> (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.		(Choose statement 1, 2 or 3)  2
<b>English 101</b> (C- or better required) (4 credits)	4	ENG 101
<b>Humanities</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)  1
<b>Social Sciences</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)  1
<b>Additional Breadth</b> (3 credits) (Choose approach that is different from the approach of the Major) Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.	3	(Choose statement 5 or 6)  5
<b>Interdisciplinary Perspectives</b> (5 credits) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	5	(Choose statement 1, 2 or 3)  1
<b>Health and Exercise Studies</b> (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	26 hours	
<b>GEP Co-Requisites:</b>		<b>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.</b>
<b>U.S. Diversity co-requisite</b> (USD)	n/a	(Choose statement 1 or 4)  1
<b>Global Knowledge co-requisite</b> (GK)	n/a	(Choose statement 1 or 4)  1
<b>Foreign Language Proficiency</b>	n/a	Proficiency at the FL_102 level required.
<b>The following requirements must be satisfied within the College/Program:</b>		Place an <b>X</b> in the credit hour box to indicate below that the requirement is "Satisfied by College/Program Requirements"
<b>Communication in the Major (Advanced Communication)</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	120 Total hours	<b>As applicable, indicate here the overall GPA requirement for degree completion including course completion.</b>

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

Indicate display status: Current: Proposed: X

Proposed Effective Semester: Fall 2020

Degree/Plan Title: Bachelor of Science in Physics

Concentration/Subplan Title:

Plan SIS Code: 17PHYBS

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
PY 201 University Physics <sup>1</sup>	4 (CP)	PY 202 University Physics II <sup>1</sup>	4 (CP)
MA 141 Calculus I <sup>2</sup>	4 (CP)	MA 241 Calculus II <sup>2</sup>	4 (CP)
ENG 101 Academic Writing and Research <sup>H</sup>	4	CH 101 Chemistry-A Molecular Science <sup>3</sup>	3
HES_*** Health & Exercise Studies <sup>E</sup>	1	CH 102 General Chemistry Laboratory <sup>3</sup>	1
COS 100 Science of Change <sup>G</sup>	2	GEP Humanities Elective <sup>C</sup>	3
	<b>Total: 15</b>		<b>Total: 15</b>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PY 203 University Physics III <sup>1</sup>	4 (CP)	PY 411 Mechanics I <sup>1</sup>	3 (CP)
PY 251 Introduction to Scientific Computing <sup>2</sup>	3	PY 413 Thermal Physics <sup>1</sup>	3
PY 252 Instrumental and Data Analysis <sup>1</sup>	2	MA 341 Applied Differential Equations I <sup>2</sup>	3
MA 242 Calculus III <sup>2</sup>	4 (CP)	Basic Science Elective <sup>3,4</sup>	3
GEP Social Sciences Elective <sup>D</sup>	3	GEP Humanities Elective <sup>C</sup>	3
	<b>Total: 16</b>		<b>Total: 15</b>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PY 412 Mechanics II <sup>1</sup>	3	PY 401 Quantum Physics I <sup>1</sup>	3
PY 414 Electromagnetism I <sup>1</sup>	3	PY 415 Electromagnetism II <sup>1</sup>	3
MA 401 Applied Differential Equations <sup>2</sup>	3	MA 405 Linear Algebra <sup>2</sup>	3
Statistics <sup>2,5</sup>	3	Computing/Numerical Methods <sup>2,7</sup>	3
Advanced Writing <sup>6</sup>	3	Technical Elective <sup>3,8</sup>	1
	<b>Total: 15</b>	HES_*** Health & Exercise Studies <sup>E</sup>	1
			<b>Total: 14</b>
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PY 402 Quantum Physics II <sup>1</sup>	3	<del>PY 452 Advanced Physics Lab <sup>1</sup></del>	<del>3</del>
GEP Interdisciplinary Perspectives <sup>G</sup>	3	Advanced Experimental Physics <sup>1,9</sup>	3
Technical Elective <sup>3,8</sup>	3	GEP Social Sciences Elective <sup>D</sup>	3
Technical Elective <sup>3,8</sup>	3	GEP Additional Breadth HSS-VPA <sup>F</sup>	3
Free Elective	3	Technical Elective <sup>3,8</sup>	3
	<b>Total: 15</b>	Free Elective	3
			<b>Total: 15</b>
Minimum Credit Hours Required for Graduation*: 120			

**Major/Program Footnotes:**

- At most one passing grade below C- is permitted in the Physics category.
- At most one passing grade below C- is permitted in the Math/Statistics/Computing category.
- At most one passing grade below C- is permitted in the Sciences/Technical Electives category.
- Basic Sciences: select from BIO 165, BIO 181, BIO 183, BME 203, CH 201, CH 202, CH 203, CH 204, CH 220, CH 222, CHE 205, GN 301, MAE 214, MEA 101, MEA 110, MEA 200, MEA 210, MEA 215, MEA 220, MSE 200, MSE 201, MSE 203, NE 202, PCC 203, TE 200
- Statistics course must be at the 300 level or above.
- Advanced Writing: select from ENG 331, ENG 332, ENG 333.
- Computing/Numerical Methods: select from CSC 302, CSC 427, CSC 428, MA 402, MA 427, MA 428, PY 525.

8. Technical Electives are courses at the 300 level or above in science, mathematics, technology, engineering, and in math and science education.

9. Advanced Experimental Physics: select from PY 452, PY 456

**\*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: **PY 201, CH 101**
- 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: **None**
- 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: **COS 100**
- 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.

MAJOR FIELD OF STUDY REQUIREMENTS:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.		List GEP category and hours satisfied by a Major requirement
<b>PHYSICS*</b>		
PY201 University Physics I	4 (CP)	Natural Sciences (4 credits)
PY202 University Physics II	4 (CP)	
PY203 University Physics III	4 (CP)	
PY252 Instrumental and Data Analysis	2	
PY401 Quantum Physics I	3	
PY402 Quantum Physics II	3	
PY411 Mechanics I	3 (CP)	
PY412 Mechanics II	3	
PY413 Thermal Physics	3	
PY414 Electromagnetism I	3	
PY415 Electromagnetism II	3	
PY452 Advanced Physics Lab - Advanced Experimental Physics (PY452, PY456)	3	Communication in the Major
<b>Math/Statistics/Computing*</b>	4 (CP)	Mathematical Sciences (4 credits)
MA141 Calculus I	4 (CP)	Mathematical Sciences (4 credits)
MA241 Calculus II	4 (CP)	
MA242 Calculus III	3	Technology Fluency
PY251 Introduction to Scientific Computing	3	
Statistics (any ST300+ course)	3	
MA341 Applied Differential Equations I	3	
MA401 Applied Differential Equations II	3	
MA405 Linear Algebra	3	
Computing/Numerical Methods (CSC302, CSC427, CSC428, MA402, MA427, MA428, PY525)		
<b>Chemistry/Basic Sciences/Technical Electives*</b>	3	Natural Sciences (3 credits)
CH101 Chemistry – A Molecular Science	1	
CH102 General Chemistry Laboratory	3	
Basic Sciences (BIO165, BIO181, BIO183, BME203, CH201, CH202, CH203, CH204, CH220, CH222, CHE205, GN301, MAE214, MEA101, MEA110, MEA200, MEA210, MEA215, MEA220, MSE200, MSE201, MSE203, NE202, PCC203, TE200)	10	
Technical Electives (Any course at the 300 through 500 levels with prefix:		
AA, AES, ANS, AEC, BCH, BIO, BAE, BEC, BMA, BME, BBS, BIT, MBA, BUS, CHE, CH, CE, CBS, CSC, CS, EGR, ECO, EC, ECE, E, EGM, ENT, EA, ES, ET, FIM, FW, FS, FSA, FOR, GN, GIS, ECG, ID, ISE, LOG, MEA, MSE,		

<p>EMS, MA, MAE, MES, MT, MB, NW, NE, NTR, OR, PSE, PY, PHY, PB, PP, PCC, PO, SSC, ST, SMT, TC, TE, TMS, TT, TOX, WPS, ZO , excluding:</p> <p>MA302, MA303, MA305, MA331, MA341, MA401, MA405 , PY401, PY402, PY407, PY411, PY412, PY413, PY414, PY415, PY452, PY501, PY502, PY511, PY512, PY514, PY515, PY581, PY582)</p> <p>*At most one passing grade below C- is allowed in each of the three categories: Physics, Math/Statistics/Computing, and Chemistry/Basic Sciences/Technical Electives.</p> <p><b>Advanced Writing</b> (ENG331, ENG332, ENG333)</p>	3	
<b><u>Concentration Courses/Groups/Electives:</u></b>		
<b><u>Free Electives:</u></b>	6	
<p><b>Total credit hours under Major Field of Study:</b>  <i>Minimum 27 hours required in program area.</i></p>	94 hours	
<b>COLLEGE REQUIREMENTS:</b>		
Orientation co-requisite (Verify) : COS 100		
<b><u>Other:</u></b>		
<b>Total credit hours under College Requirements:</b>	0 Hours	



<b>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</b>  <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>  <b>Specific courses should not be listed in any of the fields below other than ENG 101.</b>		<b>At least one of the following must be listed:</b> 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 <b>X</b> 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.
<b>General Education Program Requirements:</b> Minimum 39-40 hrs	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <b>(Choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (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.		(Choose statement 1, 2 or 3)  2
<b>Natural Sciences</b> (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.		(Choose statement 1, 2 or 3)  2
<b>English 101</b> (C- or better required) (4 credits)	4	ENG 101
<b>Humanities</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)  1
<b>Social Sciences</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)  1
<b>Additional Breadth</b> (3 credits) (Choose approach that is different from the approach of the Major) Major/College requirements cannot satisfy this requirement and an AB course cannot be double-counted except in satisfying the Global Knowledge or U.S. Diversity co-requisites.	3	(Choose statement 5 or 6)  5
<b>Interdisciplinary Perspectives</b> (5 credits) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	5	(Choose statement 1, 2 or 3)  1
<b>Health and Exercise Studies</b> (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	26 hours	
<b>GEP Co-Requisites:</b>		<b>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.</b>
<b>U.S. Diversity co-requisite</b> (USD)	n/a	(Choose statement 1 or 4)  1
<b>Global Knowledge co-requisite</b> (GK)	n/a	(Choose statement 1 or 4)  1
<b>Foreign Language Proficiency</b>	n/a	Proficiency at the FL_102 level required.
<b>The following requirements must be satisfied within the College/Program:</b>		Place an <b>X</b> in the credit hour box to indicate below that the requirement is "Satisfied by College/Program Requirements"
<b>Communication in the Major (Advanced Communication)</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	120 Total hours	<b>As applicable, indicate here the overall GPA requirement for degree completion including course completion.</b>



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

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

## MEMO

Date: April 14, 2020  
To: Bret Smith, Senior Interim Dean, University College  
From: Dr. Richard Warr, Associate Dean, Poole College of Management  
Subject: Updates to Accepted Substitutes for Statistics Requirement

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The Poole College of Management would like to request that the list of accepted substitutes for the BUS/ST 350 degree requirement for the Business Administration (20BUSBS), Accounting (20ACCBS), Economics BA (20ECONBA) and Economics BS (20ECONBS) for requirement terms 2171 and 2178 be updated to reflect current statistics courses.

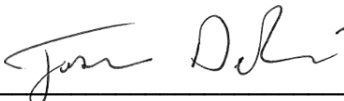
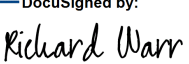
All Poole degrees require that students take BUS/ST 350. For students who start out in other degree programs or who are pursuing other majors or minors in addition to their Poole degree, the college allows other statistics courses to substitute for BUS/ST 350. The current list of accepted substitutes is now outdated and includes courses that are no longer taught by the Statistics department.

Current substitutes: ST 302, 361, 370, 372

Proposed revision: ST 305, 312, 370, and 372

This should have no negative impact on current or future students or on enrollment in these courses since the college has been allowing students to utilize these courses via manual substitution. This update would reduce the administrative burden in making manual substitutions and would help clarify accepted substitutes for students and reduce confusion.

## ENDORSED BY:

	APRIL 14, 2020
CHAIR, COLLEGE COURSES & CURRICULA COMMITTEE	DATE
DocuSigned by: 	April 14, 2020
COLLEGE DEAN	DATE

**APPROVED BY:**

CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE	DATE
---	------

CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION	DATE
---	------

DEAN OF UNDERGRADUATE ACADEMIC PROGRAMS	DATE
---	------

**Routing for On-Campus Approval of Other Degree Program Actions****Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(s) as indicated☐ New Certificate Program

Proposed Certificate Program Title: \_\_\_\_\_

☐ Change in Degree Program Title

Current Degree Program Title: \_\_\_\_\_

Proposed Degree Program Title: \_\_\_\_\_

☐ Change in Certificate Program Title

Current Certificate Program Title: \_\_\_\_\_

Proposed Certificate Program Title: \_\_\_\_\_

☐ XX Program Discontinuation☐ Change in CIP Code☐ Adding/Changing Delivery ModeProposed Effective Date: ☐ Spring 2013 \_\_\_\_\_ Program Contact: ☐ Meg Calkins \_\_\_\_\_Proposed CIP Code (see <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>): ☐ 04.0601 \_\_\_\_\_**Routing of Action:** Indicate date when the following occurs**Completed Proposal**☐ 10.4.19\_ Department Head endorses\*☐ 4/17/2020 College Curriculum Committee (undergraduate or graduate) recommends\*☐ 4/17/20 College Dean endorses\***Proposal moves to Undergraduate or Graduate office for routing**☐ Recommended by Vice Provost, DELTA, if applicable\*☐ Associate Deans Council **or** Graduate Operations Council informed

\_\_\_\_\_ University Courses & Curriculum Committee **or** Administrative Board of the Graduate School recommends

\_\_\_\_\_ Dean (Graduate School or DASA) approves\*

***Proposal moves to the Executive Vice Chancellor and Provost's office for routing***

\_\_\_\_\_ Substantive Change Review Team (SCRT) makes initial determination of likelihood of SACSCOC notification

\_\_\_\_\_ Council of Deans recommends\*

\_\_\_\_\_ Executive Vice Chancellor and Provost approves\*

\_\_\_\_\_ Chancellor's Cabinet recommend

\_\_\_\_\_ Chancellor approves\*

\_\_\_\_\_ Vice Provosts informed

\_\_\_\_\_ University Council informed

\_\_\_\_\_ Board of Trustees subcommittees recommend

\_\_\_\_\_ Submitted to UNC System Office by Provost's Office

\_\_\_\_\_ Letter sent to SACSCOC after final System approval, if applicable

\* Signature is required on the signature page for the action

**North Carolina State University**  
**Routing for On-Campus Approval of Other Degree Program Actions**

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

**Endorsed By:**



Meg Calkins

April 17, 2020

---

Head, Department/Program

Date

**Recommended By:**

Kristen Schaffer

4/17/2020

---

Chair, College Curriculum Committee

Date



4/17/2020

---

College Dean

Date

**Recommended By:**

---

Vice Provost, DELTA (if DE degree/certificate)

Date

**Recommended By:**

---

Chair, UCCC or ABGS

Date

**Approved By:**

---

Dean, DASA or the Graduate School

Date

**Recommended By:**

---

Council of Deans

Date

**Approved By:**

---

Executive Vice Chancellor and Provost

Date

**Approved By:**

---

Chancellor

**UNIVERSITY OF NORTH CAROLINA**  
**REQUEST TO DISCONTINUE**  
**A DEGREE PROGRAM, SITE OR DELIVERY MODE**

Date: October 4, 2019

Constituent Institution: NCSU

Is the program a joint degree program? Yes ☐ No ☒ XX

Joint Partner campus \_\_\_\_\_

Title of Authorized Program: Bachelor of Landscape Architecture Degree Abbreviation: BLA

CIP Code (6-digit): 04.0601 Level: B xx ☐ M ☐ I ☐ D ☐

CIP Code Title: Landscape Architecture

If the degree program has associated UNC Teacher Licensure Specialty Area Codes that, upon this discontinuation, should be attributed to a different degree program, then complete the following:

UNC Teacher Licensure Specialty Area Code (one per line; add as needed)	Degree Program to Receive Specialty Area Code		
	Title	Degree awarded	6-Digit CIP

Term of Proposed Discontinuation (when new students will no longer be admitted):

term Spring year 2013

1. What type of program discontinuation is being requested? (if b/c/d, one or more can be selected)

- a) ☒ **Discontinue - Permanent.** (While course offerings already shared across degree programs may continue, the program components will not become a significant or distinct component of another program. Degree program is discontinued in full in Academic Program Inventory (API), including any approved off-campus sites and alternate means of delivery; requires action of Board of Governors)
- b) ☐ **Discontinue - Delivery.** Eliminate one or more delivery types and keep the program active.
- ☐ On-campus delivery of program



- \_\_\_\_\_ Online delivery of program
- \_\_\_\_\_ Site-based delivery of program
  - \_\_\_\_\_ Instructor present (off-campus delivery)
  - \_\_\_\_\_ Instructor not present (site-based distance education)
- c) \_\_\_\_\_ **Discontinue - Consolidate.** Program components will become a significant or distinct component in another degree program (e.g. concentration/track).
  - \_\_\_\_\_ Existing degree program (BOG approved)
    - Program title, degree, CIP \_\_\_\_\_
  - \_\_\_\_\_ New degree program (Request to Establish and BOG approval generally required)
    - Proposed program title, degree, CIP \_\_\_\_\_

If (b) is selected and sites are to be discontinued, please list them (add lines as needed).

Site #1

---

*(address, city, county, state)*

---

*(date of site authorization by GA)*

Site #2

---

*(address, city, county, state)*

---

*(date of site authorization by GA)*

Site #3

---

*(address, city, county, state)*

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*(date of site authorization by GA)*

2. Explain why the program, site, or delivery mode is being discontinued.

**The Bachelor of Landscape Architecture Program admitted the last students in Fall 2012 due to low enrollment at the time. A Request to Discontinue form was never completed.**

- a. If the program, site or delivery mode addresses high priority needs, how will those needs be addressed by other programs?

**Professional education in Landscape Architecture in North Carolina is provided by the Master of Landscape Architecture program at NCSU. A Bachelor of Landscape Architecture Program is offered by North Carolina A&T University. Both programs are accredited by the Landscape Architecture Accreditation Board (LAAB) of the American Society of Landscape Architects (ASLA).**

- b. Describe how affected parties (faculty, staff, students) will be informed of the impending closure and, where applicable, of any additional charges/expenses to students.

**Faculty, staff and students were informed of the closure of the Bachelor of Landscape Architecture Program in a memo from the Department Head, Gene Bressler, in March 2011.**

- c. Describe steps to be taken to allow students enrolled in the program, site or delivery mode to complete their courses of study.

**The BLA program did not fully close until the last student graduated in July 2016.**

3. Discuss the reassignment of any faculty, staff and EHRA non-faculty, including number of each type of personnel to be reassigned.

**No faculty or staff in the Department of Landscape Architecture were reassigned with the discontinuation of the BLA degree. The Department still offers a Master of Landscape Architecture (MLA) Degree and a Landscape Architecture Minor.**

4. Discuss the discontinuation of the employment of any faculty, staff and EHRA non-faculty, including number of each type of personnel to be discontinued.

**n/a**

5. Discuss reallocation or reduction of costs resulting from each discontinuation(s), including specific amounts related to each discontinuation.

**Costs were not substantially reduced because several new courses were added to support the MLA Program.**

**Estimated cost savings are:**

- **Space**
  - **There have been no cost savings on space due to the suspension of the BLA Program because the MLA program has grown and absorbed the extra space. Additionally, students in the LA Minor have occupied the spaces as well.**
- **Courses**
  - **There have been minimal savings in course offerings. While there was an approximately \$60,000 savings in eliminating the four undergraduate BLA Studios, the additional courses added to enhance the MLA program and increase offerings to LA minors have absorbed these savings.**
- **Human Resources: Redirecting/reallocating partial FTE from program direction and advising responsibilities to teaching/scholarship/service.**
  - **The number of full time tenure track/tenure faculty remains the same. The number of adjuncts hired to deliver some of the BLA courses was reduced, but the number of adjuncts hired to deliver the new courses increased.**

6. Name, title, telephone, and e-mail of contact person for this notification of discontinuation:

**Meg Calkins, Landscape Architecture Department Head + Professor**  
**Department of Landscape Architecture**  
**North Carolina State University**  
[mecalkin@ncsu.edu](mailto:mecalkin@ncsu.edu)  
**919.515.8342**

This request to discontinue a degree program, delivery mode, or site has been reviewed and approved by the appropriate institutional committees and authorities.

Signature of Chief Academic Officer: \_\_\_\_\_

Signature of Chief Academic Officer (Joint Campus partner) \_\_\_\_\_

MEMORANDUM

DATE: 20 February 2020

TO: Office of Undergraduate Courses and Curricula

FROM: Dr. David Crouse  
Director of Undergraduate Programs  
Crop and Soil Sciences



RE: Curriculum Action for B.S. in Crop and Soil Science – Turfgrass Science

The Department of Crop and Soil Sciences requests the approval of a new concentration, Turfgrass Science (111CSSCTGS), under the Bachelor of Science in Crop and Soil Sciences (11CSSCBS).

Justification:

The Bachelor of Science in Turfgrass Science (11TFGBS) was created in Fall 2006 when enrollment in the Turfgrass concentration in the Plant and Soil Science (11PSS) degree justified creating its own program. In recent years, admission into 11TFGBS is down and it is no longer appropriate to maintain a distinct bachelor degree in Turfgrass Science. While enrollment has declined, turfgrass in North Carolina is still annually a billion dollar industry and demand for our turf students remains high, with 100% placement rate following graduation.

In 2018, the Bachelor of Science in Turfgrass Science (11TFGBS) was revised to meet the UNC system requirement that no degree exceed 120 credits. Our proposal is to maintain the full academic design of the 11TFGBS plan, but convert it to subplan under the Crop and Soil Sciences plan. Attached to this memo are the Format A and Format B approved by University Courses and Curricula Committee on 26 September 2018. We are proposing no changes other than conversion to a concentration.

FORMAT A  
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: \_\_\_\_\_ Proposed: X Proposed Effective Semester: **August 2020 (Term 2208)**

Degree/Plan Title: **Crop and Soil Sciences**

Concentration/Subplan Title: **Turfgrass Science**

Plan SIS Code: **11CSSCBS**

Subplan SIS Code: **11CSSCBS-11CSSCTFG**

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
ALS 103 - Freshman Transitions & Diversity in Ag & Life Sci <u>or</u> ALS 303 - Transfer Transitions & Diversity in Ag & Life Sci	1	CH 101 Chemistry – A Molecular Science	3
BIO 181 Intro Bio: Ecol, Evol, and Biodiversity	4	CH 102 General Chemistry Lab	1
ENG 101 Academic Writing and Research <sup>H</sup>	4	PB 200 Plant Life	4
MA 121 Elements of Calculus	3	ST 311 Intro to Statistics	3
CS 290 Professional Development in Plant and Soil Sciences	1	GEP Physical Education/Healthy Living Elective <sup>E</sup>	1
GEP Humanities Elective <sup>C</sup>	3	GEP Interdisciplinary Perspective Elective <sup>G</sup>	3
Total:	<b>16</b>	Total:	<b>15</b>
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ARE 201 Intro to Agri Res Economics <sup>D</sup>	3	Economics, Management and Policy Elective <sup>2</sup>	3
BIO 183 Intro Biology: Cell and Molecular Bio	4	CH 220 Organic Chemistry	3
CS 200 Intro to Turfgrass <sup>1</sup>	4	CH 222 Organic Chemistry Lab	1
GEP Physical Education/Healthy Living Elective <sup>E</sup>	1	COM 110 Pub Speaking <u>or</u> COM 112 Interpersonal Communication	3
PB 360 Intro to Ecology	4	SSC 200 Soil Science <sup>1</sup>	3
		SSC 201 Soil Science Lab <sup>1</sup>	1
Total:	<b>16</b>	Total:	<b>14</b>
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PP 315 Principles of Plant Pathology	4	PB 321 Intro Whole Plant Physiology	3
SSC 341 Soil Fertility & Nutrient Management	3	CS 211 Plant Genetics	3
ENG 331 Comm for Engineering and Tech <u>or</u>	3	CS 400 Turf Cultural Systems <sup>1</sup>	3
ENG 332 Comm for Business & Management <u>or</u>			
ENG 333 Comm for Science & Research			
GEP Interdisciplinary Perspective Elective <sup>G</sup>	2	PY 131 Conceptual Physics	4
GEP Humanities Elective <sup>C</sup>	3	SSC 342 Soil & Plant Nutrient Analysis	1
Total:	<b>15</b>	Total:	<b>14</b>

**SENIOR YEAR**

<b>FALL SEMESTER</b>	<b>CREDITS</b>	<b>SPRING SEMESTER</b>	<b>CREDITS</b>
CS 465 Env. Issues in Turf Management <sup>1</sup>	3	CS 470 Adv. Turf Pest Management	2
CS 414 Weed Science	4	GEP Social Sciences Elective <sup>D</sup>	3
HS 471 Landscape Ecosystem Management	4	GEP Additional Breadth Elective <sup>F</sup>	3
SSC 461 Soil Physical Properties	3	Free Electives	5
Experiential Learning Elective <sup>3</sup>	3		
Total:	<b>17</b>	Total:	<b>13</b>

Minimum Credit Hours Required for Graduation \*<sup>1,J,K,4</sup>: **120****Major/Program Footnotes:**<sup>1</sup> A grade of C- or better is required for CS 200, CS 400, and CS 465.<sup>2</sup> Economics, Policy and Management Electives. Three credits from: ARE 215, ARE 301, ARE 304, ARE 306, ARE 309, ARE 312, ARE 332, BUS 225, BUS 320, BUS 340, BUS 420, CS 418, PS 320.<sup>3</sup> Experiential Learning Elective: Three credits from CSSC 492 or CSSC 493.**\*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: **These requirements are met through required courses. Students do not need to take additional math.**
- 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: **These requirements are met through required courses. Students do not need to take additional science.**
- C. Humanities** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement.
- D. Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **3 hours are met by the ARE 201 requirement; 3 hours are met by COM 112 if chosen**
- E. Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)  
Choose from the University approved GEP Physical Education/Healthy Living course list.
- F. Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)  
  X   Humanities/Social Sciences/Visual and Performing Arts or        Mathematical Sciences/Natural Sciences/Engineering
- G. Interdisciplinary Perspectives** (5-6 credit hours)  
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement.
- H. Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better )
- The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:
- I. U.S. Diversity** (USD)  
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement.
- J. Global Knowledge** (GK)  
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement.
- K. Foreign Language proficiency** - Proficiency at the FL\_102 level is required for graduation.

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
MA 121 (CP)	3	Mathematics & Natural Sciences (37 hours)
ST 311	3	
BIO 181 (CP)	4	
BIO 183	4	
CH 101 (CP)	3	
CH 102	1	
CH 220	3	
CH 222	1	
PB 200 (CP)	4	
PB 321	3	
PB 360	4	Communication and Advanced Writing (6 hours)
PY 131	4	
COM 110 or COM 112 – Communication	3	Communication and Advanced Writing (6 hours)
ENG 331 or ENG 332 or ENG 333 – Advanced Writing	3	
ARE 201	3	Required Courses within Major (42 hours)
CS 200 (CP) [C- or better required]	4	
CS 211	3	
CS 400 [C- or better required]	3	
CS 414	4	
CS 465 [C- or better required]	3	
CS 470	2	
CS 290	1	
HS 471	4	
PP 315	4	
SSC 200 (CP)	3	
SSC 201	1	
SSC 341	3	
SSC 342	1	
SSC 461	3	
<b>Concentration Courses/Groups/Electives:</b>		
Economic, Management and Policy Elective	3	See footnoted list
Experiential Learning	3	
<b>Free Electives:</b>	5	

<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	100 hours	
<b>COLLEGE REQUIREMENTS:</b>		
<b>Orientation Course(s):</b> ALS 103 or 303	1	
<b>Other:</b>		
<b>Total credit hours under College Requirements:</b>	1 Hours	

<b><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></b>  <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>  <b><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></b>		<b><u>At least one of the following must be listed:</u></b> 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 <b>X</b> 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.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <b><i>(Choose applicable statement from 1-6 listed above)</i></b>
<b>Mathematical Sciences</b> (6 credits) (At least 1 course with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	0	(Choose statement 1, 2 or 3) 2
<b>Natural Sciences</b> (7 credits) (At least 1 lab course or course with a lab) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	0	(Choose statement 1, 2 or 3) 2
<b>English 101</b> (C- or better required) (4 credits)	4	ENG 101
<b>Humanities</b> (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
<b>Social Sciences</b> (6 credits) (Courses from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	3	(Choose statement 1, 2 or 3) 3, (Major course requirements satisfies 3 credits of this requirement. Additional 3 credits can come from COM 112, if chosen for the communications requirement).
<b>Additional Breadth</b> (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) 5
<b>Interdisciplinary Perspectives</b> (5 credits) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.</i>	5	(Choose statement 1, 2 or 3) 1
<b>Health and Exercise Studies</b> (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	23 hours	
<b>GEP Co-Requisites:</b>		<b><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></b>
<b>U.S. Diversity co-requisite</b> (USD)	n/a	(Choose statement 1 or 4) 4



<b>Global Knowledge co-requisite</b>	(GK)	n/a	(Choose statement 1 or 4) 4
<b>Foreign Language Proficiency</b>		n/a	Proficiency at the FL_102 level required.
<b>The following requirements must be satisfied within the College/Program:</b>			Place an <b>X</b> in the credit hour box to indicate below that the requirement is <b>"Satisfied by College/Program Requirements"</b>
<b>Communication in the Major (Advanced Communication)</b>		X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>		X	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.		120 Total hours	<b>As applicable, indicate here the overall GPA requirement for degree completion including course completion.</b>

**Concentration Electives:**Economics, Management and Policy Elective

ARE 215 Small Business Accounting  
 ARE 301 Intermediate Microeconomics  
 ARE 304 Agribusiness Management  
 ARE 306 Agricultural Law  
 ARE 309 Environmental Law & Economic Policy  
 ARE 312 Agribusiness Marketing  
 ARE 332 Human Resource Management for Agribusiness  
 BUS 225 Personal Finance  
 BUS 320 Financial Management  
 BUS 340 Information Systems Management  
 BUS 420 Financial Management of Corporations  
 CS 418 Intro to Regulatory Science in Agriculture  
 PS 320 U.S. Environmental Law and Politics

Experiential Learning

CSSC 492 Professional Internship Experience in Crop and Soil Sciences  
 CSSC 493 Research Experience in Crop and Soil Sciences

SIGNATURE PAGE

CURRICULUM ACTION for Creating New Undergraduate Concentration

**Crop and Soil Sciences - Turfgrass Science (11CSSCBS-11CSSCTFG)**

**Recommended by:**

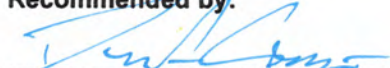


Head, Department of Crop and Soil Sciences

2-24-20

Date

**Recommended by:**

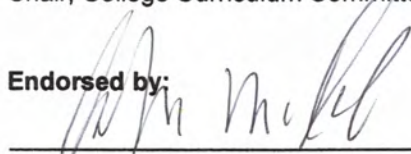


Chair, College Curriculum Committee

28 Feb 2020

Date

**Endorsed by:**



College Dean

3/6/2020

Date

**Approved by:**

Chair, University Courses & Curricula Committee

Date

Chair, Council on Undergraduate Education

Date

Dean, Division of Academic and Student Affairs (DASA)

Date

## Routing for On-Campus Approval of Degree Program Actions

**Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(es) as indicated

<input checked="" type="checkbox"/> New Degree Program	Proposed Program Title <u>Crop and Soil Sciences – Turfgrass Science</u>
<input type="checkbox"/> New Certificate Program	Proposed Certificate Program Title _____
<input type="checkbox"/> New Minor Program	Proposed Minor Program Title _____
<input type="checkbox"/> Change in Degree Program Title	Current Degree Program Title _____
<input type="checkbox"/> Change in Certificate Program Title	Current Certificate Program Title _____
<input type="checkbox"/> Change in Minor Program Title	Current Minor Program Title _____
<input type="checkbox"/> Change in Course Prefix	Current Course Prefix _____ Proposed Course Prefix _____
<input type="checkbox"/> Program Discontinuation	

Responsible College(s) CALS Responsible Department(s) Crop and Soil Sciences

Program Contact Name David Crouse Contact email crouse@ncsu.edu

Proposed SIS Curriculum and CIP Code 11CSSCBS-11CSSCTFG Proposed Effective Date August 2020 (Term: 2208)

**Routing of Action:** Indicate by date when the following occurs.

**Completed Request to Plan and 1-page Concept Paper submitted to Council of Deans**

\_\_\_\_\_ Council of Dean's Meeting - Approval to Plan granted

**Completed Request to Plan:**

Feb. 24

Department Head *endorses* (signature required) see attached signature page

28 Feb

College Curriculum Committee *recommends* (signature required)

Mar 06

College Dean *endorses* (signature required)

**Request moves to Undergraduate or Graduate Office for routing:**

\_\_\_\_\_ Recommended by Vice Provost, DELTA (if DE degree) (signature required)

\_\_\_\_\_ Substantive Change Review Committee (SCRT) *reviews*

\_\_\_\_\_ If SACS notification is required, SCRT prepares letter draft for Chancellor to send to SACS

\_\_\_\_\_ University Courses and Curricula Committee or Administrative Board of the Graduate School *recommends* (signature required)

\_\_\_\_\_ Dean, (DASA or Graduate School) *approves* (signature required)

\_\_\_\_\_ Associate Dean's Council or Graduate Operations Council *informed*

**Request moves to Executive Vice Chancellor and Provost's Office for routing:**

\_\_\_\_\_ Vice Provosts *informed*

\_\_\_\_\_ Deans' Council *recommends* (signature required)

\_\_\_\_\_ Executive Vice Chancellor and Provost *approves* (signature required)

\_\_\_\_\_ Recommended by Chancellor's Executive Officers (EOM)

\_\_\_\_\_ University Council *informed*

\_\_\_\_\_ Presented to Board of Trustees subcommittees (Academic & Personnel and Finance & Planning)

\_\_\_\_\_ Chancellor *approves* (signature required)

\_\_\_\_\_ SCRT Liaison prepares SACS letter for substantive change as applicable (approval or notification)

\_\_\_\_\_ Request submitted to UNC-GA by Provost's Office via PREP or MOA or MOU as appropriate

**Notes:**

**To:** Office of Undergraduate Courses and Curricula

**From:** Dr. David A. Crouse  
Director of Undergraduate Programs  
Crop and Soil Sciences

**Date:** 20 February 2020

**Re:** Discontinuing the Bachelor of Science in Turfgrass Science

**Justification:** The Department of Crop and Soil Sciences requests the discontinuation of the Turfgrass Science degree (11TFGBS). The structure of the Turfgrass Science degree was moved to a new Turfgrass Science concentration under the Crop and Soil Sciences (11CSSCBS) degree.

**Impact on the Classification:** The discontinuation does not affect the CIP Code 01.0607, as it will still be used for the Turfgrass Science concentration under 11CSSCBS.

**Impact on Other Programs:** Other programs will not be affected by this change.

**Impact on Future Students:** Effective August 2020, the Department requests the university cease admitting students into Turfgrass Science (11TFGBS) as freshman or transfers. We also ask it be removed as an option for CODA effective August 2020.

**Impact on Current Students:** The students currently in the plan will be allowed to complete their degrees. New students will be admitted to the new Turfgrass concentration under the Crop and Soil Sciences degree. The students will have until June 2025 (Term: 2256) to complete the Turfgrass Science degree. Come Term 2256, if the students have not completed their degree, they will be moved into the Turfgrass Science concentration in the Crop and Soil Sciences degree.

**Proposed Effective Date:** August 2020 (Term: 2208)



- \_\_\_\_\_ Online delivery of program
  - \_\_\_\_\_ Site-based delivery of program
    - \_\_\_\_\_ Instructor present (off-campus delivery)
    - \_\_\_\_\_ Instructor not present (site-based distance education)
- c)   x   **Discontinue - Consolidate.** Program components will become a significant or distinct component in another degree program (e.g. concentration/track).
- x   Existing degree program (BOG approved)
    - Program title, degree, CIP Crop & Soil Sciences – Turfgrass Science (01.0607)
  - \_\_\_\_\_ New degree program (Request to Establish and BOG approval generally required)
    - Proposed program title, degree, CIP \_\_\_\_\_

If (b) is selected and sites are to be discontinued, please list them (add lines as needed).

Site #1

---

*(address, city, county, state)*

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*(date of site authorization by GA)*

Site #2

---

*(address, city, county, state)*

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*(date of site authorization by GA)*

Site #3

---

*(address, city, county, state)*

---

*(date of site authorization by GA)*

2. Explain why the program, site, or delivery mode is being discontinued.

- a. If the program, site or delivery mode addresses high priority needs, how will those needs be addressed by other programs?

The needs of the program will continue to be met by a newly formed concentration in the existing Crop and Soil Sciences Bachelor of Science. The full structure of the terminating Turfgrass Science degree is maintained, but the program will be run as a subplan of the larger Crop and Soil Sciences plan.

- b. Describe how affected parties (faculty, staff, students) will be informed of the impending closure and, where applicable, of any additional charges/expenses to students.

Faculty have met and discussed the pending discontinuation resulting from the merger of the Turfgrass Science degree into the Crop and Soil Science degree as a distinct concentration. Students will meet with the Director of Undergraduate Programs to discuss their options and path forward.

- c. Describe steps to be taken to allow students enrolled in the program, site or delivery mode to complete their courses of study.

The students currently in the plan will be allowed to complete their degrees. New students will be admitted to the new Turfgrass concentration under the Crop and Soil Sciences degree. The students will have until June 2025 (Term: 2256) to complete the Turfgrass Science degree. Come Term 2256, if the students have not completed their degree, they will be moved into the Turfgrass Science concentration in the Crop and Soil Sciences degree.

3. Discuss the reassignment of any faculty, staff and EHRA non-faculty, including number of each type of personnel to be reassigned.

No faculty, staff or EHRA non-faculty have been or will be reassigned.

4. Discuss the discontinuation of the employment of any faculty, staff and EHRA non-faculty, including number of each type of personnel to be discontinued.

No faculty, staff or EHRA non-faculty have had or will have their employment discontinued.

5. Discuss reallocation or reduction of costs resulting from each discontinuation(s), including specific amounts related to each discontinuation.

Efforts related to the Turfgrass Science degree have already been reallocated to the Turfgrass Science concentration in the Crop and Soil Sciences degree.

6. Name, title, telephone, and e-mail of contact person for this notification of discontinuation:

David Crouse, Alumni Distinguished Undergraduate Professor and Director of Undergraduate Programs, Crop and Soil Sciences, 919-515-7302, crouse@ncsu.edu

This request to discontinue a degree program, delivery mode, or site has been reviewed and approved by the appropriate institutional committees and authorities.

Signature of Chief Academic Officer: \_\_\_\_\_

Signature of Chief Academic Officer (Joint Campus partner) \_\_\_\_\_

SIGNATURE PAGE

CURRICULUM ACTION for Terminating Undergraduate Program

**Turfgrass Science (11TFGBS)**

**Recommended by:**



Head, Department of Crop and Soil Sciences

2-24-20

Date

**Recommended by:**

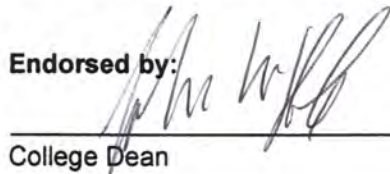


Chair, College Curriculum Committee

28 Feb 2020

Date

**Endorsed by:**



College Dean

3/6/2020



Date

**Approved by:**

Chair, University Courses & Curricula Committee

Date

Chair, Council on Undergraduate Education

Date

Dean, Division of Academic and Student Affairs (DASA)

Date



## Routing for On-Campus Approval of Degree Program Actions

**Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(es) as indicated

<input type="checkbox"/> New Degree Program	Proposed Program Title _____
<input type="checkbox"/> New Certificate Program	Proposed Certificate Program Title _____
<input type="checkbox"/> New Minor Program	Proposed Minor Program Title _____
<input type="checkbox"/> Change in Degree Program Title	Current Degree Program Title <u>Turfgrass Science</u>
<input type="checkbox"/> Change in Certificate Program Title	Current Certificate Program Title _____
<input type="checkbox"/> Change in Minor Program Title	Current Minor Program Title _____
<input type="checkbox"/> Change in Course Prefix	Current Course Prefix _____ Proposed Course Prefix _____
<input checked="" type="checkbox"/> Program Discontinuation	

Responsible College(s) CALS Responsible Department(s) Crop and Soil Sciences

Program Contact Name David Crouse Contact email crouse@ncsu.edu

Proposed SIS Curriculum and CIP Code \_\_\_\_\_ Proposed Effective Date August 2020 (Term: 2208)

**Routing of Action:** Indicate by date when the following occurs.

Completed Request to Plan and 1-page Concept Paper submitted to Council of Deans

\_\_\_\_\_ Council of Dean's Meeting - Approval to Plan granted

Completed Request to Plan:

Feb 24 Department Head *endorses* (signature required) see attached signature page

2020 College Curriculum Committee *recommends* (signature required)

Mar 06 College Dean *endorses* (signature required)

Request moves to Undergraduate or Graduate Office for routing:

\_\_\_\_\_ Recommended by Vice Provost, DELTA (if DE degree) (signature required)

\_\_\_\_\_ Substantive Change Review Committee (SCRT) *reviews*  
 \_\_\_\_\_ If SACS notification is required, SCRT prepares letter draft for Chancellor to send to SACS

\_\_\_\_\_ University Courses and Curricula Committee or Administrative Board of the Graduate School *recommends* (signature required)

\_\_\_\_\_ Dean, (DASA or Graduate School) *approves* (signature required)

\_\_\_\_\_ Associate Dean's Council or Graduate Operations Council *informed*

Request moves to Executive Vice Chancellor and Provost's Office for routing:

\_\_\_\_\_ Vice Provosts *informed*

\_\_\_\_\_ Deans' Council *recommends* (signature required)

\_\_\_\_\_ Executive Vice Chancellor and Provost *approves* (signature required)

\_\_\_\_\_ Recommended by Chancellor's Executive Officers (EOM)

\_\_\_\_\_ University Council *informed*

\_\_\_\_\_ Presented to Board of Trustees subcommittees (Academic & Personnel and Finance & Planning)

\_\_\_\_\_ Chancellor *approves* (signature required)

\_\_\_\_\_ SCRT Liaison prepares SACS letter for substantive change as applicable (approval or notification)

\_\_\_\_\_ Request submitted to UNC-GA by Provost's Office via PREP or MOA or MOU as appropriate

**Notes:**

## Routing for On-Campus Approval of External Dual Degree Program Actions

### NC State

Degree Title: **Bachelor of Science in Business Administration**

CIP Code (6 digits): **52.0201**

See <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55> for information about CIP codes

Proposing College(s): **Poole College of Management** Program Contact: **Robert Sandruck**

### Partnering Institution

Name of Partner Institution: **SKEMA Business School**

Title of Degree: **Bachelor of Business Administration in Global Management**

Program Contact: **Yan Grasselli**

Proposed Effective Date: **Ongoing, renewal of current program**

**Routing of Action:** Indicate date when the following occurs

#### **Completed Proposal (Memorandum of Agreement (MOA) is required)**

- ☒ Department Head reviews
- ☒ College Curriculum Committee (undergraduate or graduate) recommends
- ☒ College Dean reviews

#### **Proposal moves to Office of Undergraduate Courses and Curricula or Graduate School for routing**

- ☐ Recommended by Vice Provost, DELTA, if applies
- ☐ Substantive Change Review Team (SCRT) reviews
- ☐ If SACSCOC notification is required, SCRT prepares letter for Chancellor to send to SACSCOC
- ☐ Office of Global Engagement reviews (if institution is outside the U.S.)
- ☐ University Courses and Curriculum Committee **or** Administrative Board of the Graduate School recommends
- ☐ Associate Deans Council **or** Graduate Operations Council informed
- ☐ Dean (Graduate School or Division of Academic and Student Affairs) approves\*

#### **Proposal moves to the Provost's Office for routing**

- ☐ Vice Provosts informed
- ☐ Deans' Council recommends
- ☐ Executive Vice Chancellor and Provost approves\*
- ☐ Chancellor's Cabinet recommends
- ☐ University Council informed
- ☐ Board of Trustees subcommittees informed
- ☐ Chancellor approves
- ☐ Accreditation Liaison prepares SACSCOC letter, if applicable

\* Signature is required on the Memorandum of Agreement (MOA)

## **MEMORANDUM OF AGREEMENT FOR DUAL DEGREE PARTNERSHIP**

### **Collaborative Academic Agreement**

**Establishment of a dual degree with North Carolina State University requires completion of this Memorandum Of Agreement (MOA) and signatory approval by the Provost. In addition, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) requirement must be notified prior to implementation of this agreement.**

Complete the following and provide thorough explanation and answers to each item.

#### **I. NC State Participation:**

Level of Degree: **Bachelor**

College Participating: **Poole College of Management**

Other Participating College(s), if applicable: **N/A**

Full Title of Degree Conferred (Include concentration title if applicable.): **Bachelor of Business Administration | Concentration options include Finance, Information Technology, Marketing, Human Resource Management, Entrepreneurship, and Operations/Supply Chain Management**

Name and contact information for the primary developer of Agreement: **Robert Sandruck, Director of Global Programs, Poole College of Management, [rlsandru@ncsu.edu](mailto:rlsandru@ncsu.edu), 919-515-5565**

Name and contact information for the program coordinator, if different from developer: **Fara Amiri, Program Coordinator, Office of Global Programs, Poole College of Management, [fsamiri@ncsu.edu](mailto:fsamiri@ncsu.edu), 919-515-0750**

#### **II. Participating Partner Institution: If multiple partners, complete separate form for each**

Name of Partner Institution: **SKEMA Business School**

Location of Institution: **Multiple campuses in Belo Horizonte, Brazil; Suzhou, China; Lille, France; Paris, France; Sophia Antipolis, France' Cape Town, South Africa; and Raleigh, United States**

Name and contact information for the primary developer of this Agreement (include address, phone, email, etc.)

**Patrice Houdayer**  
**Vice Dean of International Programs and Student Life**  
**[patrice.houdayer@skema.edu](mailto:patrice.houdayer@skema.edu)**

Oussama Ammar  
Associate Dean for Undergraduate Programs  
oussama.ammar@skema.edu

Yan Grasselli  
SKEMA BBA Director  
yan.grasselli@skema.edu

Amanda Nagele  
International Office Manager  
amanda.nagele@skema.edu

Alexandra Jonsson  
International Coordinator  
alexandra.jonsson@skema.edu

Level of Degree: Bachelor

Full Title of Degree Conferred (Include concentration title if applicable): Bachelor of Business  
Administration in Global Management

Partner Institution Accreditation Status: French Ministry of Education; Conference des Grandes Ecoles  
(French accreditation)

Other Accreditation, Licensure or Approving Body Information (Ex: ABET, EQUIS/EFMD, AACSB):  
Association to Advance Collegiate Schools of Business (AACSB); European Quality Improvement  
System (EQUIS); Association of MBA (AMBA) [Triple crown of business school accreditation]; National  
Registry of Professional Certification (RNCP)

Duration of Agreement: (Minimum 5 years. Unless otherwise specified – prior to the end of 5th year,  
agreement must be approved for extension.) 5 Years

**III. Timeline:** (Note that the program cannot begin recruitment or matriculation of students until after  
SACSCOC notification and/or approval. SACSCOC reviews new program proposals twice per year.)

Proposed Start Date of Agreement: Ongoing as this a renewal

Expected Date for recruitment and advertising: Ongoing as this a renewal

Expected Date of student matriculation/enrollment in dual degree program: Ongoing as this a renewal

**IV. Attachments: In addition to this MOA, attach other applicable documentation and list each  
attachment/appendices below: (ex: SACSCOC prospectus, letter of support from College Dean  
and/or Provost, organizational charts, faculty CV's)**

1. Dean's Support Letter
2. Curriculum Alignment Document
  - a. NC State to SKEMA Business School
  - b. SKEMA Business School to NC State
3. Dual Degree Program Terms and Conditions
4. Faculty CV's & Summary Table
5. SKEMA Ranking and Accreditation
6. Poole College's BSBA Assessment Plan

## **V. Collaborative Objectives:**

1. What is the purpose and benefits of the dual degree partnership? The purpose of the dual degree partnership is to maintain the strong and broad collaborative partnership between SKEMA Business School and NC State University and the Poole College of Management. The Poole College of Management and SKEMA have enjoyed a close partnership with SKEMA since the inception of its US-based campus located on NC State's Centennial Campus.

This BSBA/BBA program allows SKEMA students to not only experience the NC State campus but also experience the exceptional education provided in the classroom and ultimately earn a degree from NC State. The program benefits NC State and the Poole College of Management by diversifying the Poole classroom with students from around the world. To this point, as SKEMA has developed campuses in Brazil, South Africa, and China, starting in Fall 2020, the program will accept students from these new campuses, based on them meeting the agreed upon conditions for admissions.

Through this partnership, we are increasing the number of international students in the College. Thus, we offer all of our students the opportunity to better understand different cultures and to begin to understand their business education in a global context. These students are academically strong and provide a unique perspective in the classroom. The program also creates an alumni network throughout Europe and other areas of the world. Finally, as this is not an exchange program, the SKEMA students participating in the program will pay out-of-state tuition. This is an additional benefit of the partnership as it provides additional tuition funds to the University and takes little administrative support to deliver.

2. What evidence of institutional/program comparability exists (rankings, joint faculty research, publications, etc.)? SKEMA Business School and NC State University are strategic partners which is epitomized by SKEMA having a physical presence on NC State's Centennial Campus. The proximity of this international partner fosters a number of collaborative initiatives. Examples of these initiatives include NC State faculty teaching at SKEMA, SKEMA students engaging in co-curricular activities, study abroad opportunities for NC State students, faculty collaboration and academic degree partnerships including this dual degree program as well as the Master of Management in Global Luxury Management Dual Degree Program. Specific examples are:

- **Study Abroad:** France: MBA, Art & Science of Negotiation in Paris short-term study abroad program for NC State MBA students; David Henard, Professor of Marketing serves as faculty director for the program and has taken nearly 100 students to the SKEMA-Paris campus over the past 5 years.



- **Faculty Teaching:** David Henard, Brad Asbaugh & Patrice Nealon and other Poole faculty teach in the Master of Science courses offered at SKEMA-Raleigh campus.
- **Co-Curricular Activities:** The Global Training Initiative at NC State helps orient, connect and integrate SKEMA students into the NC State and the surrounding community. SKEMA students also participate in the Cultural Exchange Network at NC State which provides opportunities for cultural activities and community service experiences. SKEMA students often join student organizations on NC State's campus and the Poole College of Management furthering their engagement with the campus.

From a rankings perspective, SKEMA is well positioned in many international rankings. SKEMA Business School is ranked #12 worldwide (The Financial Times) and #17 worldwide (Times Higher Education & The Wall Street Journal) for its Master in Management and Global Bachelor of Business Administration, respectively. Overall, it is ranked #49 by the Financial Times in European business school rankings. In addition, SKEMA has reached the triple crown of business school accreditation (AACSB, EQUIS, and AMBA) - another example of their academic and research excellence.

3. What are the areas of mutual interest? Past partnerships? Both the Poole College of Management and the SKEMA Business School share the mutual interest of educating globally focused business students both at the undergraduate and graduate levels. This shared goal has developed a long-term and multi-faceted partnership between the two institutions that began in 2009 when SKEMA selected NC State's Centennial location as its first and currently only US-based campus. Since that time, NC State and the Poole College of Management have continued and strengthened the relationship as demonstrated with the previous examples. Providing a truly global education can be expensive and difficult; however, the partnership with SKEMA and its proximity to the Poole College of Management has created an avenue for more efficient international work with both students and faculty.

4. What are the Partner Institutional priorities? SKEMA Business School was formed in 2009 with the merger of two business schools - Lille School of Management and CERAM Business School. The merger created a new school with a vision for an international structure and an innovative, globally focused educational model. With this in mind, SKEMA has campuses in France, the USA, China, South Africa and Brazil and students can study at multiple campuses during their academic career at SKEMA. This dual degree program is an extension of the international structure by allowing SKEMA students to earn an NC State degree and experience a US-modelled business education.

SKEMA outlines its priorities clearly on the institutional website which reads:

*ONE name: SKEMA - School of Knowledge Economy and Management*

*ONE ambition: To be THE global business school*

*Since its beginnings in 2009, after the merger between ESC Lille and CERAM Business School, SKEMA has been a global business school that has always been inspired by the same ambition on its French and international campuses: to train leaders and managers who are mobile and adaptable, able to contribute to the knowledge economy and generate sustainable performance respecting the values and challenges of society, the environment and the economy. SKEMA graduates should seek to create value by continuous innovation while respecting multicultural*

*and social diversity. The school currently has 8,500 students, 160 research professors, seven campuses worldwide and 45,000 alumni.*

### ***Mission and values***

*The mission and values on which SKEMA has based its strategy are completely in line with world economic developments. To offer training and guidance to men and women, students and practitioners, so that they can develop both personally and professionally. SKEMA is open to people from all backgrounds who have strong potential and who respect the values of ethics and responsibility, so that they are able to:*

- *Make their mark in organisations of all sizes in any country or region in the multicultural context of the globalised economy*
- *Contribute to their organisations' sustainable development and performance through their sense of innovation, their technical skills and international cross-cultural competence.*

*To reach these goals, the school engages in:*

- *Academic and applied research*
- *Pedagogical innovation*
- *An international, multi-campus structure*

*By doing this, the school contributes to:*

- *Developing the areas local to its campuses*
- *Developing the companies it deals with*

*SKEMA's 2020-2025 strategic plan is to:*

- *Become the Avant-Garde School*
- *Establish itself as the impactful player*
- *Position itself as the "glocal" institution*

*SKEMA's values are an integral part of the school's positioning:*

- *Multiculturalism and diversity*
- *Lifelong learning and personal development*
- *An entrepreneurial mindset*
- *Humanism*
- *Excellence*

5. How does this agreement fit with NC State Institutional Mission? As indicated in NC State's mission statement, the University "promotes an integrated approach to problem solving that transforms lives and provides leadership for social, economic, and technological development across North Carolina and around the world." This section of the mission statement is at the heart of this program. Through

this program, NC State/Poole College of Management and SKEMA Business School will have a significant impact towards NC State achieving its mission.

As we look to renew this program, it is worth noting that in the current strategic plan "the pathways to the future: NC State's 2011-2020 strategic plan," the board of trustees outlines two specific initiatives that are relevant to this program. Goal 1 states that NC State shall enhance the success of our students through educational innovation. This program is an innovative approach to business education and recognizes the need to be "globally engaged." NC State students in the Poole College of Management will have the opportunity to engage with and work alongside international students who bring new and unique perspectives to the classroom. In addition, the strategies outlined in this goal address the interest of increasing the percentage of incoming external undergraduate transfer students and increasing the geographic diversity of the undergraduate class by enrolling more international students. Students participating in this program will be from outside the United States and will apply as international transfer students thus contributing to both of these strategies.

The fifth goal of the strategic plan is to "enhance local and global engagement through focused strategic partnerships." This goal is further outlined with three strategies including: "support and provide opportunities for increasing students' civic and global knowledge, experience, and perspectives; support and provide incentives for faculty and staff to engage in collaborative global scholarship; and enhance active and sustainable partnerships, locally, regionally, and globally." This program is clearly in line with this goal and supporting strategies. We will increase students' civic and global knowledge, provide opportunities for collaborative faculty teaching and research between the two schools, and enhance a strong partnership between SKEMA and NC State University.

6. How does this agreement fit with the NC State College's Mission? The Poole College's mission states that the college will "engage with industry and academia to create an innovative and collaborative intellectual environment that fosters learning, scholarship and service. We focus on developing and supporting leaders with an entrepreneurial mindset and analytical problem solving capabilities to positively impact our data-rich, dynamic, global economy."

This dual degree program is innovative. It is also collaborative. The dual degree program is an innovative approach to business education that meets the needs of this global data-driven economy. It requires collaboration between two business schools, one in North Carolina and one in France and collaboration between the students who are with other students from around the world. And through careful curriculum alignment, students gain the entrepreneurial and analytical mindset in the most globally focused environment. The end result is graduates who demonstrate NC State's and Poole's mission and who are distributed geographically around the world.

## **VI. Administration:**

1. How was the proposed dual degree developed? Describe the process by which NC State faculty worked with the partner faculty to plan program content, select courses, and choose mode of delivery. This program was originally developed in 2009 under the direction of Ira Weiss, Former Dean of the Poole College of Management. Initial discussions were followed up by review and approval from the faculty of the Poole College of Management as well as the College's Executive Team which consists of



Associate Deans and Department Heads. Given this dual degree program is a one-way agreement and is offered through the existing academic structure of the Bachelor of Science in Business Administration program at NC State, no additional courses, concentrations or degree programs were created.

During this renewal process, Robert Sandruck, Director of Global Programs, Ellen Frost, Associate Director of Global Programs, Dr. Jason DeRousie, Director of Curriculum and Scheduling and Dr. Tamah Morant, Former Associate Dean for Undergraduate Programs in Poole worked with the departmental faculty and College curriculum committee members to review the course alignment and transfer credit approval for this dual degree program. Given this is only a one-way dual degree program (SKEMA to NC State), the faculty reviewed and approved how the courses taken at SKEMA during Year 1, 2 and 3 transfer to NC State and completed specific requirements of the Bachelor of Science in Business Administration degree at NC State. The remaining degree requirements needed to be fulfilled for graduation from NC State are NC State courses so no additional approval was required for this specific program.

2. How will the proposed program be administered? Include detail regarding each partner responsibilities related to administration, academic policy enforcement, logistics, and student recruitment, registration, admissions. Attach organizational chart and recruitment timeline if applicable. (Examples of recruitment materials may be requested when pursuing SACSCOC approval). SKEMA students complete three years of prescribed course work at any of SKEMA's global campuses. During Year 3, students will apply for admission to NC State University. Once the student completes the application process and is admitted to the University, they will begin their fourth and final year of study as a degree-seeking student in the Poole College of Management.

SKEMA Business School will manage the admission process for entry into the SKEMA Business School and will be responsible for managing course enrollment and enforcing academic policies relevant to their degree program at SKEMA. SKEMA will identify the most academically prepared students (up to a total of 20 per year) that will apply for admission into NC State University. Rob Sandruck, Director of Global Programs in Poole, will manage the admission process by working with the University Admissions Office to ensure the appropriate documents are submitted by the deadlines. Upon acceptance to the University, the Poole College of Management will initiate the transfer credit process based on the approved course alignment. Students will only receive transfer credit for courses where they receive a C- or better. Courses with grades below this threshold will not be transferred into NC State, thus requiring students to complete the course at NC State in order to meet degree requirements. SKEMA uses a U.S. based grading scale across all of its international campuses eliminating any issues with grade conversion.

During Year 4, the Poole College of Management will administer the academic program and SKEMA will not be involved in any academic matters such as course selection, faculty assignment, etc. The SKEMA students at NC State will be assigned an advisor. At the time of this submission, the academic advisor is Fara Amiri, Program Coordinator for Global Programs. Ms. Amiri will be responsible for working with the students on course selection and enrollment and enforcement of academic policy. All of this will follow the policies and procedures of all degree-seeking students at NC State and in the Poole College of Management. The staff assignment of advising SKEMA students is subject to change.

The specifics of implementation are outlined below:

**Admissions:** SKEMA students will apply for admission through the regular international transfer application process, which includes completion of the online application, payment of application fee, submission of official academic records (in English), proof of English proficiency, and credible documentation of finances (CFR). Details about the application process and important deadlines are available at the Admissions website: <http://admissions.ncsu.edu/intl/int-trans.php>. Students must have a minimum Grade Point Average (GPA) of 3.0 on a 4.0 (US standard) scale to be eligible for admission into NC State and the Poole College of Management.

Applications will be reviewed by the Office of Undergraduate Programs in Poole who will make a formal recommendation regarding admission to the University Admissions Office. The University Admissions Office has the final authority on all admission decisions. Students will be notified of their admission decision by April 1st (for the Fall Semester) and October 15th (for the Spring Semester). Only complete applications including all required documentation will be considered. Admissions is limited to a maximum of 20 students per academic year. Students meeting the requirements outlined above are not guaranteed admissions as space limitations may impact the final admissions decisions.

**Course and Credit Transfer:** SKEMA and Poole will review courses and curricula in respective undergraduate programs to evaluate transfer equivalencies. The attached table (Appendix 2) outlines the course equivalency agreed upon by both schools. Course credit and grading in the SKEMA Bachelor Program is based on a US model that is equivalent to NC State. According to the policies of North Carolina State University and its accrediting agencies, a minimum of 25% of the total credits going towards the NC State degree must be taken at NC State. In addition, 30 of the last 45 credits earned towards the NC State degree must also be taken at NC State. The course equivalency table (Appendix 2) is reviewed annually to ensure any curriculum changes are taken into account prior to a new group of students enrolling at NC State. Any significant changes are reviewed and approved if necessary by the college curriculum committee.

**Language Proficiency:** The TOEFL English proficiency requirement for SKEMA students is waived based on the first three years of courses being taught in English. Further requirements for the waiver include students earning a C- or higher in each of the following:

- SKEMA's combined courses of ENG 1001 + ENG1002
- Composition & Rhetoric I + Scientific & Technical Communication (COM3223)

**Academic Performance:** Students are expected to maintain a minimum GPA of 2.0 during their studies at NC State. Failure to meet this requirement may result in the student being placed on academic probation or dismissal from NC State.

3. How will tuition and fees be coordinated? Include detail regarding student enrollment and tuition at each Partner Institution. Include a statement regarding student financial responsibilities, such as "Students are responsible for personal expenses, transportation, textbooks and other course materials, and any required educational fees or taxes."

Admitted SKEMA students who enroll at NC State are responsible for paying all out-of-state tuition and full student fees along with living expenses including housing, travel, medical insurance (required),

medical costs not covered by insurance, food, subsistence costs, books and other educational materials. As required by the United States Government, all international students must demonstrate the financial resources to support the duration of their education in the United States. As such, students must complete the Certification of Financial Responsibility (CFR) form as part of the admissions process. While SKEMA students are completing their coursework in Year 1, 2, and 3 at SKEMA, all tuition and fees will be paid directly to and handled by SKEMA Business School.

4. Proposed NC State SIS sub-plan code for designated students participating in dual degree. The sub-plan identifying the dual-degree students must align with the SIS plan code for the NC State degree program (max 10 char).

Because the SKEMA dual degree students are enrolled in the Bachelor of Science in Business Administration degree at NC State, there is not a SIS sub-plan code designated for this program. All students in the program will be part of the 20BUSBS plan and then one of the following sub-plans depending on their declared concentration:

- 20BUSFIN
- 20BUSENT
- 20BUSMKT
- 20BUSHR
- 20BUSIT
- 20BUSOP

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#### **VII. NC State Policy Disclaimer for this agreement:**

“Students participating in this coordinated dual degree program will be subject to all applicable policies and regulations at all Partner Institutions, even during semesters enrolled at the partnership institution(s).”

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#### **VIII. Expected Annual Student and Faculty (if applicable) Participation during each year of the agreement:**

	Year 1 (AY 20-21)	Year 2 (AY 21-22)	Year 3 (AY 22-23)	Year 4 (AY 23-24)	Year 5 (AY 24-25)
Students	5	7	11	15	20
Faculty	0	0	0	0	0

#### **IX. CURRICULUM DESIGN:**

1. Provide an overview of how the degree requirements for each Institution will be completed as part of this dual arrangement. The SKEMA curriculum has been modeled after the BSBA curriculum in the Poole College of Management. The attached curriculum alignment table (Appendix 2) outlines how the

courses align with each other. During Year 1, 2, and 3 at SKEMA, students will take courses that are equivalent to specific BSBA requirements in Poole College. This includes general education requirements (humanities, natural sciences, etc) and the introductory and intermediate business, accounting and economics courses required for degree completion. In taking these courses, the SKEMA students are prepared to take the upper level business courses in Year 4 as well as any remaining general education courses. As previously mentioned, through the course alignment and curriculum approval processes, the Poole College of Management has ensured that the SKEMA students complete all degree requirements for the Bachelor of Science in Business Administration degree from NC State. As this is a one-way dual degree program, SKEMA is responsible for ensuring their degree requirements are completed through the aligned coursework. SKEMA is also responsible for ensuring students who apply from the different worldwide campuses follow the agreed upon curriculum alignment

2. Provide a list of NC State course requirements for degree and equivalency to related courses at Partner Institution. (Attach as semester-by-semester display of course requirements and provide a list of course requirements and equivalencies for the dual degree program): **Please see the attached curriculum alignment table (Appendix 2).**

3. Provide list of Partner Institution's course requirements, analysis of course content, and equivalency to related courses at NC State. **Please see Appendix 4 that links to all of the SKEMA courses syllabi. Additionally, the course alignment table (Appendix 2) documents the alignment of SKEMA courses to the BSBA curriculum requirements on a course by course basis.**

4. Describe how and when transfer courses will be evaluated. **The course evaluations have been reviewed and approved by the College's curriculum committee (Spring 2019). The curriculum alignment document will be reviewed annually and if SKEMA makes any curriculum changes, the changes will be reviewed. If it is a course change, the review process will follow the College's established review process for students who study abroad and transfer credit back to Poole. Any broader curriculum changes will be sent to the College Curriculum Committee for review and approval.**

**Credits will be transferred to NC State from SKEMA upon the student's official acceptance into NC State University. This will take place before the start of their first semester in the Poole College of Management and when the student's final transcripts from SKEMA are received. The courses on each individual student's transcript will be reviewed against the approved curriculum alignment document. If there are any discrepancies between the approved curriculum alignment and the student transcript, the review process will follow the College's established review process for students who study abroad and transfer international credit back to Poole.**

5. If Thesis requirement, provide details (supervision/credit). **Neither SKEMA nor the Poole College of Management require a thesis.**

6. What is the total percentage of courses taken at Partner Institution? **The total percentage of courses taken at SKEMA is 75%.**

7. What is the total percentage of courses taken at NC State? (At least 50% of hours for graduate programs and at least 25% for undergraduate programs must be taken at NC State). **The total percentage of courses taken at NC State is at least 25%.**
8. To be eligible for a bachelor's degree, a student must have earned at least 30 of the last 45 hours of credit through NC State courses. If this requirement will not be met, please provide justification to explain. **This requirement will be met by all students in the dual degree program as they take a minimum of 15 credits per semester for their final two semesters at NC State before graduation.**
9. Transfer hours allowed by NC State. **NC State will transfer a maximum of 90 credits to count toward the Bachelor of Science in Business Administration degree in order to comply with the University policy of earning a minimum of 25% of credits at NC State. The courses taken at SKEMA are considered transfer credit.**
10. Transfer hours allowed by Partner. **Students in the NC State/SKEMA Dual Degree Program credit taken in year 4 back to SKEMA to complete their degree requirements. NC State sends official transcripts to SKEMA at the conclusion of year 4 which includes 30 credit hours of coursework.**
11. Will course credit from Partner Institution count toward NC State GPA calculation? (If yes, explain) **No, courses taken and credit earned at SKEMA Business School will not be factored into the NC State GPA calculation. Only courses taken at NC State will count toward the NC State GPA.**
12. Describe other requirements. (residence, comprehensive exams, internships, language, etc.) **This program does not have any other requirements besides the academic requirements.**
13. Provide a list of courses that will be offered totally online and in hybrid format. Indicate the applicable format next to each course. **All courses offered at SKEMA are offered in person. Nothing is taught totally online or in a hybrid format.**
14. Will NC State courses be offered at an off-campus site either through DE or face-to-face? If so, has the site been approved by SACSCOC? **All NC State courses will be taught in the main campus in Raleigh, NC. Per visa policies, international students are restricted to the number of courses that can be taken online. Thus, SKEMA students will be limited in the number of online courses they are allowed to take at NC State.**

#### **X. ASSESSMENT/MEASURABLE OUTCOMES:**

What are the measurable student learning outcomes for this academic arrangement and how will they be assessed? Note: Outcomes for the existing degree must be met in the dual degree arrangement, and a copy of the most recent assessment plan must be attached to all Memorandum of Agreement renewals. Provide any additional outcomes related to the academic collaborative arrangement. **Since this dual degree program is overset on the Bachelor of Business Administration (BSBA) Program, the learning outcomes for the program match the learning outcomes of the BSBA program. The assessment of these outcomes is managed at the College level. Dr. Roby Sawyers, Professor of Accounting serves as the Director of Assessment and Accreditation for the College and oversees the**

assessment efforts. Attached is the College's assessment plan of the BSBA Program. See Appendix 6 for the specific learning outcomes.

#### **XI. FACULTY CREDENTIALS FROM THE PARTNER INSTITUTION:**

1. Provide a list of the faculty directly involved in teaching courses as part of this program of study. Attach the CV for each. Please see Appendix 4 for a list of faculty with hyperlinks to their respective CV.
  - a. Faculty at Partner Institutions who wish to serve as NC State Graduate Faculty members, advising graduate students and serving on graduate student advisory committees, must be nominated to the Graduate Faculty. Contact the Graduate School for more information.  
<https://www.ncsu.edu/grad/handbook/sections/1.3-grad-faculty.html> - Not applicable to this proposal.

#### **XII. INSTITUTIONAL COMMITMENT AND RESOURCES:**

NC State University:

1. Provide a description of NC State's commitment to this academic arrangement.

NC State's commitment is to accept up to 20 students annually from SKEMA (who meet admissions requirements for international transfer admission at NC State). Once accepted, NC State provides visa documentation and enrolls students into a pre-set schedule of courses at NC State. These courses are based on the curriculum alignment document and takes into account the credits transferring into NC State and what credits/courses are remaining. NC State also provides career development support for these students as well as academic advising during their time in the Poole College of Management.
2. Provide detail regarding the funding for this arrangement (amount, source, duration).

Required funding for the SKEMA-NC State dual degree program is minimal. NC State does not engage in any recruitment activities and thus the first point of engagement occurs at the admissions process. Managing the partnership with SKEMA and overseeing the admissions process takes a maximum of 2% of the Director of Global Programs time. Student support is provided by academic advising, career development, etc. The staffing allocated to serve this group of students is extremely low (less than 2% of staff time annually). At full capacity (20 students), this program only represents 0.5% of the total undergraduate student population in the Poole College of Management. As such the total indirect cost to Poole is less than \$10,000 in salary and benefits while the revenue generated from out-of-state tuition will exceed \$500,000 annually (at 20 students per year)
3. Provide detail regarding facilities and space (amount, source, duration).

The SKEMA-NC State dual degree program is managed in the Poole College of Management and is based in Nelson Hall. No specific space is allocated or needed for the program as students are integrated into the existing BSBA program. As degree-seeking students, the students in this program will also have access to the facilities on NC State's campus such as the Talley Student Center, Carmichael Gymnasium, etc. The use of these facilities are paid for by the student fees the students pay each semester



4. Provide detail regarding library resources (amount, source, duration). NC State's library resources are the primary source for data and research needs for the academic coursework taught at NC State. The libraries are of a Research 1 level University and adequately meets the needs of the students.

5. Provide detail regarding equipment required for this arrangement. None required.

6. Other: Nothing additional.

Partner Institution:

1. Provide description of Partner's commitment to this academic arrangement.

SKEMA Business School is fully committed to this program and the academic arrangements. The BBA program is modeled after Poole's BSBA curriculum which was intentionally done to facilitate this program. Over the past 5 years, SKEMA has demonstrated ongoing support to ensure their academic standards remain high and that their curriculum meets the expectations set by the Poole College of Management.

2. Provide detail regarding the funding for this arrangement (amount, source, duration). SKEMA bears the financial responsibility for recruitment activities and for offering the courses during Year 1, 2, and 3. SKEMA funds all educational expenses during the first three years of course work for the students. No money is exchanged directly between SKEMA and NC State for this program. Students pay tuition and fees directly to SKEMA for Year 1, 2, and 3 and then directly to NC State for Year 4.

3. Provide detail regarding facilities and space (amount, source, duration). SKEMA Business School maintains several campuses around the world - China, Brazil, USA, South Africa and France. Each campus has the necessary facilities in order to deliver face-to-face the courses required for the Bachelor's degree. Facilities include classrooms, computer labs, and lecture halls. These facilities are world class and have been evaluated by AACSB as part of their accreditation review and approval.

4. Provide detail regarding library resources (amount, source, duration). SKEMA Business School also offers impressive library resources for students studying on their campuses. SKEMA Business School has developed a new concept, "La Fusee", to fuse the physical and virtual library. This concept launched 3 years ago and is currently deployed in all our campuses and on their Intranet/extranet to allow access to the library resources to all students, alumni, faculty and staff regardless of their location. The library subscribes to quality academic databases and promotes the publication of web content. To learn more about all the library services available, please visit: <https://kcenter.skema.edu/>.

5. Provide detail regarding equipment required for this arrangement. None required.

6. Provide detail regarding any institutional policy or practice that would prohibit student participation based on race, gender, ethnicity, or religion. SKEMA Business School is committed to providing an inclusive and welcoming environment for all members of our community and to ensuring that educational and employment decisions are based on individuals' abilities and qualifications. Accordingly, SKEMA does not practice or condone unlawful discrimination in any form against students, employees or applicants on the grounds of race, color, religion, creed, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or gender expression. Discrimination based

upon race, color, religion, creed, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or gender expression is in violation of federal and state law and SKEMA's policy, and will not be tolerated.

Retaliation against any person complaining of discrimination is in violation of federal and state law and SKEMA's policy, and will not be tolerated. SKEMA will respond promptly to all complaints of discrimination and retaliation. Violation of this policy can result in serious disciplinary action up to and including expulsion for students or discharge for employees. Disciplinary action for violations of this policy will be the responsibility of the Dean. SKEMA hereby affirms its desire to maintain a work environment for all employee and an academic environment for all faculty and students that is free from all forms of unlawful discrimination and free from discrimination. SKEMA strives to maintain an environment that supports and rewards all individuals on the basis of such relevant factors as ability, merit and performance.

7. Other: Nothing additional.

### **XIII. REVIEW SCHEDULE FOR AGREEMENT:**

All agreements will be for a period of five years, unless otherwise specified. If requesting a renewal, nine months prior to the end date of the agreement the required renewal documentation must arrive at the Graduate School or the Office of Undergraduate Courses and Curricula and Academic Standards. This will provide continuity in the university review process. Upon the scheduled review date, responses to review criteria will be required to be completed and provided to the university review committee. If the agreement will be discontinued, a teach-out plan will be required for those students remaining in the program. Results of the most recent assessment plan must be attached to renewal documents.

As part of this agreement, specify the following:

What criteria will be used by the participating NC State College to determine whether the program should continue? The Poole College of Management aligns initiatives and efforts to our strategic goals, which are the same as the University's goals. In reviewing our goals the SKEMA-NC State dual degree program aligns with Goal 1: Enhance Student Success; Goal 2: Invest in Faculty and Infrastructure, and Goal 5: Engage Locally and Globally.

Goal 1 states that NC State will provide "educational opportunities that inspire them to lead, serve, challenge, take responsibility, build problem-solving skills and engage with complex problems." The dual degree program embodies this goal by providing a unique opportunity to expand opportunities for international students as well as enrich the classroom environment in the Poole College of Management.

Goal 2 focuses on NC State's investment in faculty and infrastructure. As a strategic partner, Poole faculty are encouraged to engage with SKEMA faculty on research efforts. Additionally, Poole faculty are often recruited to teach in the Master level programs offered at SKEMA-US. Through the extension of this partnership, Poole faculty and staff work closely in administering this program. Finally, David



Henard offers an MBA study abroad program at the SKEMA-Paris campus in partnership with SKEMA Master-level students.

In Goal 5, the University charges the NC State community to “expand beyond North Carolina’s borders and across the globe, challenging us to be locally responsive to the needs of our community and our state while globally engaging the grand challenges facing our international community.” This program allows the Poole College of Management to expand globally while utilizing the proximity of an international partner right on our campus.

Lastly, we will look at the financial cost of operating the program. Financial resources are not unlimited so the College always evaluates programs on the financial viability. Given that there are no direct costs of the program and minimal indirect costs (while also bringing in out-of-state tuition), this program is extremely cost efficient and a valuable part of the international portfolio of programs in the Poole College of Management.

In what year will this agreement be evaluated (if not 5 years from the original effective date)? **The Program will be evaluated for continuation in 5 years (2025) or beforehand if both Poole and SKEMA determine a review is needed.**

#### **XIV. SACSCOC disclaimer to be followed as part of this Agreement:**

For agreements with Partner Institutions that are not accredited by SACSCOC, the following disclaimer must be included in the Memorandum of Agreement and in any advertised postings by the Partner Institution in compliance with SACSCOC procedures related to collaborative academic agreements. The NC State program coordinator for this agreement must monitor the Partner Institution’s statements of relationship to ensure conformance with this disclaimer. In addition, neither Member nor Partner Institution(s) may use the SACSCOC logo. Its use is reserved exclusively for the Southern Association of Colleges and Schools Commission on Colleges.

##### **Disclaimer Statement:**

“North Carolina State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award [state degree levels]. [Name of Partner Institution] is not accredited by the Commission on Colleges and the accreditation of North Carolina State University does not extend to or include [name of Partner Institution] or its students. Further, although North Carolina State University agrees to accept certain course-work from [Name of Partner Institution] to be applied toward an award from North Carolina State University, that course-work may not be accepted by other colleges or universities in transfer, even if it appears on a transcript from North Carolina State University. The decision to accept course-work in transfer from any institution is made by the institution considering the acceptance of credits and course-work.”

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#### **XV. SACSCOC Prospectus**

The SACSCOC Prospectus should be attached to this document.

Please see <http://www.sacscoc.org/forms/principle/Prospectus-SubstantiveChange.docx> regarding SACSCOC prospectus requirements. For procedural guidance, please contact the Graduate School or the Office of Undergraduate Courses and Curricula and Academic Standards.

**XVI. This agreement must follow the stipulations listed below to be in compliance with NC State and SACSCOC policies:**

- The SACSCOC disclaimer is included in this agreement and will be included in any marketing for this dual degree arrangement.
- This agreement requires at least 25% of the credits for an Undergraduate program and 50% for a Graduate program be awarded by NC State.
- The SACSCOC logo does not appear on this agreement and will not be used by the NC State or the Partner Institution.
- The Partner Institution will provide timely access to their materials, physical site(s), and personnel in conjunction with accreditation reviews, if requested.
- This agreement will be reviewed in 5 years from the date of final signature.
- The signing of this agreement and any supporting documentation assures compliance with the requirements of this Memorandum of Agreement. Any changes will require approval by the signatories and other approval bodies as applicable.

**XVII. General Provisions**

**1. Contact Person and Notices.** All notices under this Memorandum of Agreement should be delivered in writing, signed by the party giving notice, to:

	<b>NC State</b>	<b>SKEMA Business School</b>
Contact Name	Robert Sandruck	Yan Grasselli
Title	Director of Global Programs	SKEMA BBA Director
Office	Poole College of Management	SKEMA Business School
Address	2801 Founders Drive Raleigh, NC 27540	60 rue Dostoievski, CS30085 06902 Sophia Antipolis Cedex, France
Phone	+1 919.515.2215	+33 (0) 4 93 95 44 03
Email	rlsandru@ncsu.edu	yan.grasselli@skema.edu

**2. Termination of this Agreement.** This agreement may be terminated by either party upon 90 days written notice to the other party. If the agreement is terminated, any participants identified previous to the termination of the agreement will be allowed to complete their programs.

3. **Costs.** Each party shall be responsible for its own costs and expenses in implementing this program.

4. **Transfer.** Neither party may assign, delegate, or otherwise transfer any obligations under this Memorandum of Agreement without the prior written consent of the other party.

5. **Use of Marks.** Neither party shall identify the other in any promotional advertising or other promotional materials or to use the name of either party's trademarks, service marks, symbols, nicknames, or logos of either party, without the prior written consent of the other party, except to identify that the parties have entered into this Memorandum of Agreement.

6. **Compliance with Applicable Law.** The Partner Institution shall comply will all laws, ordinances, codes, rules, regulations, and licensing requirements that are applicable to the conduct of its business, treatment of personal information, and local agencies having jurisdiction and/or authority.

7. **Severability.** If any provision of this Agreement is held to be invalid or unenforceable for any reason, this Memorandum of Agreement shall remain in full force and effect in accordance with its terms disregarding such unenforceable or invalid provision.

8. **Entire Agreement.** This Memorandum of Agreement contains the entire agreement of the parties and there are no representations, inducements or other provisions other than those expressed herein. All changes, additions or deletions to this Memorandum of Agreement shall be in writing and executed by the authorized representatives of both parties.

Signatures – Memorandum of Agreement

IN WITNESS WHEREOF, the authorized representatives of the parties have executed this agreement on the date(s) indicated below:

The signing of this agreement and any supporting documentation assures compliance with the requirements of this Memorandum of Agreement. Any changes will require approval by the signatories and other approval bodies as applicable.

NC State Signatures

Partner Institution Signatures

<div>DocuSigned by: <i>Frank Buckless</i> 11e99007DF9479... Dean Poole College of Management</div>	<div>April 14, 2020 Date</div>	<div></div>	<div></div>
<div>Dean DASA</div>	<div>Date</div>	<div>Vice Dean SKEMA Business School</div>	<div>Date</div>
<div>Executive Vice Chancellor and Provost</div>	<div>Date</div>	<div>Associate Dean Undergraduate Programs SKEMA Business School</div>	<div>Date</div>

## Appendix List

APPENDIX 1 - DEAN'S SUPPORT LETTER

APPENDIX 2 - CURRICULUM ALIGNMENT DOCUMENT

APPENDIX 3 - DUAL DEGREE PROGRAM TERMS AND CONDITIONS

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## Appendix 1 - Dean's Support Letter



Poole College of Management  
Office of the Dean

Dr. Frank Buckless  
Stephen P. Zelnak Jr. Dean

Campus Box 8614  
Nelson Hall 2102  
Raleigh, NC 27695-8614  
P: 919.515.4442  
poole.ncsu.edu

Dr. Warwick Arden  
Provost  
Holladay Hall 102A, Box 7101  
North Carolina State University  
Raleigh, NC 27695

Dear Provost Arden,

It is my pleasure to provide this letter of support for the NC State/SKEMA Undergraduate Business Dual Degree Program. This program is a 3+1 program where SKEMA students spend their first three years of study at one or more of SKEMA Business School's international campuses. In year three, students are nominated by SKEMA to apply to NC State to transfer and complete year four with the Poole College of Management where they earn our Bachelor of Science in Business Administration degree.

The students who are admitted to NC State are international students from France, Morocco, and the Ivory Coast. All students pay out-of-state tuition and full student fees for the year they spend in the Poole College of Management. The main benefit for us is that we have diversified our classrooms. The SKEMA students bring an international perspective to our classroom that provides unique and diverse viewpoints. The SKEMA students help domestic students who have not traveled internationally to experience a new part of the world and the difference of ideas that come from multicultural backgrounds.

Since the inception of this dual degree agreement in Fall 2013, Poole has enrolled 49 students. In renewing this agreement we have decided to extend the program to include SKEMA's international campuses. Originally, the program only included students from the Sophia Antipolis, France campus. Since 2013, SKEMA has expanded its global footprint with campuses in 8 locations including:

- Brazil: Belo Horizonte campus
- China: Suzhou campus
- France: Lille campus, Paris campus, Sophia Antipolis campus
- South Africa: Cape Town - Stellenbosch campus
- United States: Raleigh campus

They have also standardized the curriculum offered across the campuses to ensure all SKEMA students take the same classes. As such, we are pleased to extend this program to their students around the world. In doing so, we have also raised the admissions standards and have maintained a limit on the total enrollment thus ensuring we maintain quality in NC State's admissions decision.

This program offers the Poole College of Management and NC State University the unique opportunity to create a globally distributed alumni network. While the total numbers are not in the hundreds, with anticipated increase in enrollment and more time, Poole will have alumni distributed in Brazil, France, China, throughout Africa, and across the globe.

Lastly, this SKEMA/NC State Dual Degree Program aligns well with Goals 1 and 5 of NC State's Strategic Plan. It fosters innovation while fostering student success and it enhances the University global

engagement through our strategic partnership - SKEMA Business School. We are creating student success through this strong global partnership and an innovative dual degree program.

As you review this Memorandum of Agreement, I appreciate all the support you provide and especially your support of this important international engagement. SKEMA is a strategic partner of NC State and Poole and we look forward to continuing this agreement for many years to come.

Sincerely,

A handwritten signature in black ink, reading "Frank Buckless". The signature is written in a cursive, flowing style.

Frank A. Buckless

Stephen P. Zelnak, Jr. Dean

## Appendix 2 - Curriculum Alignment Documents

ARTICULATION SKEMA-Bachelor / NCSU – Bachelor Degree in Business Administration with a concentration in Marketing, Entrepreneurship, Finance, Human Resource Management, Information Technology, Operations/Supply Chain Management + concentration courses					
NCSU Course code	NCSU Course name	credits	SKEMA Course code	SKEMA Course name	credits
Year 1 (SK-BGM)					
Fall		<b>18</b>	In bold : compulsory course+ nb credits at SKEMA (20 courses)		<b>18</b>
MA 1**	<i>Finante Math Requirement</i>	3	<b>MTH 1701</b>	<b>College Algebra</b>	<b>3</b>
MA 121	Elements of Calculus and Comp Math for Life & Mngt Science	3	<b>MTH 1702</b>	<b>Business &amp; Economics Calculus</b>	<b>3</b>
TR ***	<i>Free Elective</i>	3	<b>CSE 1310</b>	<b>Consumer Computer Appl.</b>	<b>3</b>
ACC 210	Concepts of Financial Reporting	3	<b>BUS 2201</b>	<b>Financial Accounting</b>	<b>3</b>
EC 202	Principles of Macroeconomics	3	<b>BUS 2301</b>	<b>Macro Economics</b>	<b>3</b>
MIE 201	Intro to Bus Processes	3	<b>Specialization #1 BUS 1000</b>	<b>Intro to Business</b>	<b>3</b>
			<i>Requirement waiver for FL (credit compensation required) as students are non-native English speakers</i>		
Spring semester		<b>16</b>			<b>16</b>
ST 350	Economics and Business Statistics	3	<b>BUS 2702</b>	<b>Statistics for Business</b>	<b>3</b>
ENG 1GEP	<i>ENG 101 Requirement</i>	3	<b>ENG 1001</b>	<b>Academic Research &amp; Writing 1</b>	<b>3</b>
ACC 220	Introduction to Managerial Acc	3	<b>BUS 2202</b>	<b>Managerial Accounting</b>	<b>3</b>
EC 201	Principles of Microeconomics	3	<b>BUS 2302</b>	<b>Micro Economics</b>	<b>3</b>
	Additional Breadth	3	<b>Specialization #2 BUS 1100</b>	<b>Creativity Management</b>	<b>3</b>
	Physical Education	1	<b>PED XXXX</b>	<b>Physical education</b>	<b>1</b>
					<b>34</b>
Year 2 (SK-BGM)					
Fall semester		<b>16</b>			<b>16</b>
ENG 332	Advanced Writing	3	<b>COM 3224</b>	<b>Business &amp; Professional Writing</b>	<b>3</b>
	Natural Sciences + Lab	4	<b>EDS XXX+lab</b>	<b>Survey of Science + Lab</b>	<b>4</b>



	<i>Free elective</i>	3	BUS 3501	Principles of Modern Management	3
BUS 340	Information Systems Management	3	BUS 3504	Management Info. Systems	3
	<i>Free Elective</i>	3	Specialization #3 - Student Choice		3
Spring semester		18			18
PSY 200	Intro to Psychology	3	SOC 2411	Introduction to Psychology	3
	<i>Free Elective</i>	3	EVM 2000	Social and Sustainable Responsibility	3
COM 110	Communication / Speech	3	COM 2370	Public Speaking and PPT skills	3
BUS 360	Marketing Methods	3	BUS 3601	Marketing Principles	3
	Ethics Requirement (Humanities)	3	HUM 2540	Ethics	3
BUS 320	Financial Management	3	Specialization #4 BUS 3410	Financial Analysis and Decision Making (FADM)	3
					68
<b>Year 3 (SK-BGM)</b>					
Fall semester		15			15
	<i>Free Elective</i>	3	FL***	Foreign Language (Spanish, Chinese...)	3
	Humanities	3	HUM 300X	History and Culture of the US	3
MIE 330	Human Resource Management	3	BUS 3503	Human Resource Management	3
	<i>Free Elective</i>	3	BUS 3350	Marketing Strategy	3
	<i>Free Elective</i>	3	BUS 3550	Business Development	3
Spring semester		15			15
	Interdisciplinary Perspectives + Global Knowledge Co-requisite	3	BUS 3150	Globalization & Development	3
MIE 305	Legal & Reg Environment	3	BUS 3450	Legal Issues	3
MIE 310	Introduction to Entrepreneurship	3	BUS 3750	Entrepreneurship & Innovation	3
BUS 370	Operations Management	3	BUS 3600	Logistics and Trade in the US	3
	<i>Free Elective</i>	3	GTI CCP 1 + 2	Local Business Opportunities	3
<b>Total Credits SKEMA</b>					<b>98</b>

Year 4 <b>NCSU</b>					
Fall semester		<b>15</b>			
<b>M 100</b>	<b>Personal and Professional Identity Development</b>	1			
	<b>Physical Education</b>	1			
	<b>Natural Science</b>	3			
<b>ST 307</b>	<b>Statistical Programming SAS</b>	1			
	<i>Concentration course</i>	3			
	<i>Concentration course</i>	3			
<b>BUS 351</b>	<b>Business Analytics</b>	3			
Spring semester		<b>15</b>			
	<i>Concentration course</i>	3			
	<i>Concentration course</i>	3			
<b>MIE 480</b>	<b>Business Policy &amp; Strategy</b>	3			
	<i>Free Elective</i>	3			
	<i>Free Elective</i>	3			
<b>TOTAL CREDIT HOURS REQUIRED FOR NCSU DEGREE</b>		<b>128</b>			

## **APPENDIX 3 - DUAL DEGREE TERMS AND CONDITIONS**

### **1. Admissions**

SKEMA Business students will apply for admission through the regular international transfer application process, which includes completion of the online application, payment of \$100 application fee (subject to change), submission of official academic records (in English), proof of English proficiency, and credible documentation of finances (CFR). Details about the application process and important deadlines are available at the Admissions website: <http://admissions.ncsu.edu/intl/int-trans.php>.

Students must have a minimum Grade Point Average (GPA) of 2.8 on a 4.0 (US standard) scale to be eligible for admission into NC State and the Poole College of Management. The minimum accepted grade transfer will be C- (1.667 grade points) based on US standards.

Applications will be reviewed by the Office of Undergraduate Programs, PCOM, who will make a formal recommendation regarding admission to the University's Admissions Office. The University Admissions Office has the final authority on all admission decisions. Students will be notified of their admission decision by April 1st (for the Fall Semester) and October 15th (for the Spring Semester). Only complete applications including all required documentation will be considered.

### **2. Tuition. Fees and Living Expenses**

Admitted students who enrolled at NC State shall be responsible for paying all tuition and student fees along with living expenses including housing, travel, medical insurance (required), medical costs not covered by insurance, food, subsistence costs, books and other educational materials. As required by the United States Government, all international students must demonstrate the financial resources to support the duration of their education in the United States. As such, students must complete the Certification of Financial Responsibility (CFR) form as part of the admissions process. Students who elect to take extra courses at NC STATE over the summer term(s) will pay out-of-state tuition to NC STATE.

### **3. Language Proficiency**

The TOEFL English proficiency requirement for SKEMA students is waived based on the first three years of courses being taught in English. Further requirements for the waiver include students earning a C- or higher in each of the following:

- SKEMA's combined courses of ENG 1001 + ENG1002
- Composition & Rhetoric I + Scientific & Technical Communication (COM3223)

4. This MOU shall take effect upon the date of the last signature and be valid for a period of five (5) years. During the fourth year, renewal for an additional five-year period will be considered. Either university may, by notice in writing of no less than 12 months, terminate this MOU. However, any students who have commenced their studies at NC State at the date of termination may complete their courses of study towards degree completion, assuming said students remain in active visa status within North Carolina State University.

## APPENDIX 4 - FACULTY CV'S AND SUMMARY TABLE

The following table outlines the distribution of faculty among rank as classified by AACSB, the accrediting body of leading business schools in the world. The abbreviations outlined in the table are standard for AACSB and are as follows

SA= Scholarly Academic (tenure track, PhD doing research)

PA = Practice Academic (PhD, not doing as much research, engaged with industry)

SP = Scholarly Practitioner (Not academically trained, does scholarly research - rare)

IP = instructional practitioner. (Usually a lecturer whose main job is teaching)

	SKEMA Faculty Qualifications per AACSB Categories					
	SA	PA	SP	SA+PA+SP	IP	OTHER
BBA Program Faculty	52%	6%	4%	62%	31%	7%

Poole College of Management recently went through a reaccreditation review by AACSB and is expecting a full renewal for another five year period. For a point of reference, Poole's faculty distribution is as follows.

	Poole Faculty Qualifications per AACSB Categories					
	SA	PA	SP	SA+PA+SP	IP	OTHER
Poole College Faculty (graduate and undergraduate)	61.3%	5.1%	1.5%	67.9%	28.4%	3.7%

The faculty data outlined above show a relative comparison of both school's faculty. It is important to note that SKEMA is only reporting faculty who teach in the undergraduate BBA program (the dual degree program) whereas the Poole College of Management data includes graduate and undergraduate faculty. Given graduate studies represent 20-25% of Poole's total enrollment and that faculty teaching graduate students are more likely to have a terminal degree and are tenure track (SA classification) the data comparison is not presenting an equal comparison. Overall it shows that the SKEMA faculty qualifications are similar to Poole's and meets the criteria set by AACSB.

The following table lists all the faculty at SKEMA Business School who teach in the BBA Program (dual degree program). Their full CV's are available online at

<https://drive.google.com/drive/folders/1W4jF4y7-b82p-Gd49FUT-Gw10jY24SGU?usp=sharing>

## SKEMA Professors in BBA Program

Last	First	Academic Rank	Highest Degree	Degree
<a href="#">Michaelides-Le Belicard</a>	Mary-Jane	Lecturer	Master	English
<a href="#">Kaminska</a>	Renata	Associate Professor	Doctorat	
<a href="#">Saunders</a>	Alexandra	Program Manager	Master	Educations and Applied linguistics
<a href="#">Toustou</a>	Beatrice	Assistant Professor	Doctorat	Management Science
<a href="#">Rochow</a>	Sabine	Part-time Lecturer	Master	Economics
<a href="#">Mantock</a>	Mark	CEO/Scholarly Practitioner	Master	Information Systems
<a href="#">Nassiri</a>	Franck	Instructional Practitioner	Master	Strategic Management and Sustainable Development
<a href="#">Barraquier</a>	Anne	Associate Professor	Doctorat	Management
<a href="#">Viva</a>	Alex	International Business Development Counselor	MBA and MED	
<a href="#">Szebrat</a>	Cathleen	Professor	Master	Science in Management
<a href="#">Milleliri</a>	Andre	Assistant Professor	Master	Database Systems
<a href="#">Masquefa</a>	Guillaume	Analyst Consultant	Master	International Finance
<a href="#">Jones</a>	Tracy Anne	Lecturer	Master	European Management
<a href="#">Goodman</a>	Lanie	Instructional Practitioner	Ph.D.	
<a href="#">Joussemet</a>	Caroline	Scholarly Practitioner	MBA	Marketing
<a href="#">Bruno</a>	Olivier	Full Professor	Doctorat	Economics
<a href="#">Ellis</a>	Timothy	Instructional Practitioner	MBA	Marketing, Creativity, Innovation and Change Management
<a href="#">Dalmasso</a>	Audrey	Department Head	Doctorat	Economics
<a href="#">Dascalescu</a>	Verona	Lecturer	Master	Business Administration
<a href="#">Conway</a>	Tim		2 Masters	Human Services and Counseling/Integrated Marketing Communication
<a href="#">Okoli</a>	Chitu	Associate Professor	Ph.D.	Management Information Systems
<a href="#">Lucio</a>	Alessio	Lecturer		Computational Statistics , Stochastic Calculus and Finance
<a href="#">Capella</a>	David			


<a href="#">Smith</a>	Melissa	International Program Coordinator	Master	Adult and Continuing Professional Education
<a href="#">Imbert</a>	Christophe	CEO	MBA	
<a href="#">Chirino-Klevans</a>	Ivonne		PhD	Psychology
<a href="#">Di Paolantonio</a>	Elio	Tenure Professor	Master	History
<a href="#">Shantz</a>	Stephanie	Director/Lecturing Fellow	Juris Doctor	Law
<a href="#">Stella-Caumel</a>	Annabelle	TA/Associate Professor	Ph.D.	Economics
<a href="#">Gachet</a>	Laura	Teacher	Bachelors	European Studies
<a href="#">Azarian Ceccato</a>	Natasha	Adjunct Professor and Communication Director	Masters	French/Applied Linguistics
<a href="#">Andrews-Janet</a>	Cynthia	Lecturer	Bachelor	Art History

## Appendix 5 - SKEMA Ranking and Accreditation

SKEMA > SKEMA > NEWS ROOM > IFI RANKINGS

# SKEMA BUSINESS SCHOOL

ABOUT   CAMPUSES   NETWORKS   ENGAGEMENT   NEWS ROOM



## SKEMA's international and French rankings

### Master in Management / Grande Ecole programme

- The Financial Times 2019: 12<sup>th</sup> worldwide (and 4<sup>th</sup> among the French schools represented)
- Times Higher Education & The Wall Street Journal 2019: 17<sup>th</sup> worldwide (and 3<sup>rd</sup> among the French schools represented)
- L'Etudiant 2020: 5<sup>th</sup>
- Challenges 2019: 6<sup>th</sup>
- Le Parisien 2019: 6<sup>th</sup>
- MOCI magazine 2020: 1<sup>st</sup>
- Le Point 2020: 7<sup>th</sup>
- Le Figaro 2020: 6<sup>th</sup>
- QS 2020: 30<sup>th</sup> worldwide (and 6<sup>th</sup> among the French schools represented)

### Global BBA

- Challenges 2020: 4<sup>th</sup>
- MOCI magazine 2020: 2<sup>nd</sup>
- Le Point 2020: 4<sup>th</sup>
- L'Etudiant 2020: 4<sup>th</sup> (and 2<sup>nd</sup> among four-year BBA degrees)

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Virtual tour

For a complete list of rankings visit the SKEMA website at [skema.edu/skema/news-room/ranking](https://skema.edu/skema/news-room/ranking).

## **APPENDIX 6 - POOLE COLLEGE'S BSBA ASSESSMENT PLAN**

PCOM Assurance of Learning (Fall 2014 – Spring 2019)  
Learning Objectives and Processes

Responsibility for the Assurance of Learning (AoL) Process

The PCOM Undergraduate Assessment and Curriculum Committee (UCC) serves as the assurance of learning committee for the PCOM undergraduate program. The committee is represented by the chairs of the accounting, economics and BSBA curriculum committees. A similar committee serves that role in the Department of Accounting. Andy Nowel served as the Director of Curriculum, Scheduling and Assessment for PCOM through Spring 2016. Roby Sawyers (accounting faculty) served as the Director of Accreditation for PCOM from Spring 2016 through Spring 2019 as and in that role was charged with overseeing the AoL process.

These committees and faculty/staff are responsible for the overall management of the AoL process, determining the timeline for assessing outcomes, compiling and reviewing results and communicating with faculty and others regarding the process.

Faculty groups within each department with primary teaching responsibilities in specific technical areas are heavily involved in the assurance of learning process and are responsible for developing specific learning objectives and assessment measures for discipline-specific outcomes, summarizing and analyzing assessment results and developing and implementing action plans to enhance student learning and performance.

### **PCOM Learning Outcomes and Objectives for the Bachelors in Business Administration**

- 1. Proficiency in Critical Thinking: PCOM students will be able to organize, analyze, and apply information to make business decisions.**
- 2. Proficiency in Written Communication: PCOM students will be able to organize and express ideas using appropriate language and grammar in a business content.**
- 3. Proficiency in Ethics Awareness: PCOM students will be able to recognize social responsibility issues, ethical dilemmas, and alternative solutions for business organizations.**
- 4. Proficiency in Global Awareness: PCOM students will be able to recognize specific challenges that arise due to the international activities of a business.**
- 5. Proficiency in Diversity Awareness: PCOM students will be able to recognize legal issues related to diversity and how differences among individuals are valuable to an organization.**
- 6. Proficiency in Business Discipline-Specific Skills: PCOM students will be able to demonstrate proficiency in core business skills including: managerial accounting, financial accounting, finance, marketing, human resource management, operations/supply chain management and information systems.**

**6-1 PCOM graduates will demonstrate competency in managerial accounting**



**6-2 PCOM graduates will demonstrate competency in financial accounting**

**6-3 PCOM graduates will demonstrate competency in finance**

**6-4 PCOM graduates will demonstrate competency in information systems**

**6-5 PCOM graduates will demonstrate competency in marketing**

**6-6 PCOM graduates will demonstrate competency in operations/supply chain management**

**6-7 PCOM graduates will demonstrate competency in human resource management**

### **Assessment of the PCOM Learning Outcomes**

Through the 2016/17 academic year, Learning Outcomes 1-4 were assessed using a written case analysis in the required college-wide senior capstone course (MIE 480). A random sample of MIE 480 student cases (including a corresponding sample of accounting students) was scored by a team of faculty using a separate rubric for each respective learning outcome.

Based on input from the PCOM UCC and the MIE 480 faculty, the UCC revised the process for assessing Learning Outcomes 1-4 during the 2017/18 academic year and beginning in the 2018/2019 academic year, assessment of ethics, written communication and critical thinking skills moved to specific classes more directly tied to the skills assessed – ethics in MIE 305 (Business Law), written communications in ENG 332 (Communication for Business and Management) and critical thinking in MIE 310 (Introduction to Entrepreneurship). As MIE 310 is not taken by accounting students, assessment of critical thinking (Learning Outcome 1) moved to specific accounting courses (ACC 310, ACC 330, ACC 340 and ACC 450) participating in the NC State University “Think” Initiative. Accounting also experimented with using the standardized CAT (Critical Thinking Assessment Test) – see <https://www.tntech.edu/cat/> as part of NC State’s general education competency assessment. Assessment of global awareness remained in MIE 480.

During the previous 5-year AoL cycle, Learning Outcome 5 (diversity awareness) was measured in two classes: M 100, “Professionalism, Diversity, and Academic Success in Management,” using a required diversity reflection assignment and MIE 330, “Human Resource Management” using embedded test questions. Due to changes in the content of M100, during the 2014-15 academic year, assessment of diversity awareness was moved out of M100 and is currently assessed in MIE 330.

Learning Outcome 6 (BSBA) – Proficiency in business discipline-specific skills is measured in each of the respective core accounting and business courses:

6-1 Competency in managerial accounting – ACC 200/220

6-2 Competency in financial accounting – ACC 210

6-3 Competency in finance – BUS 320

6-4 Competency in information systems – BUS 340

6-5 Competency in marketing – BUS 360

6-6 Competency in operations/supply chain management – BUS 370

6-7 Competency in human resource management – MIE 330

## Routing for On-Campus Approval of External Dual Degree Program Actions

### NC State

Degree Title: **Bachelor of Science in Business Administration**

CIP Code (6 digits): **52.0201**

See <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55> for information about CIP codes

Proposing College(s): **Poole College of Management** Program Contact: **Robert Sandruck**

### Partnering Institution

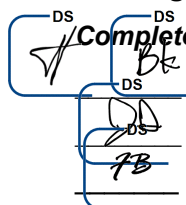
Name of Partner Institution: **NEOMA Business School**

Title of Degree: **Bachelor of International Management**

Program Contact: **Frédéric Beaumont**

Proposed Effective Date: **ongoing, renewal of current program**

**Routing of Action:** Indicate date when the following occurs



**Completed Proposal (Memorandum of Agreement (MOA) is required)**

Department Head reviews

College Curriculum Committee (undergraduate or graduate) recommends

College Dean reviews

**Proposal moves to Office of Undergraduate Courses and Curricula or Graduate School for routing**

Recommended by Vice Provost, DELTA, if applies

Substantive Change Review Team (SCRT) reviews

If SACSCOC notification is required, SCRT prepares letter for Chancellor to send to SACSCOC

Office of Global Engagement reviews (if institution is outside the U.S.)

University Courses and Curriculum Committee **or** Administrative Board of the Graduate School recommends

Associate Deans Council **or** Graduate Operations Council informed

Dean (Graduate School or Division of Academic and Student Affairs) approves\*

**Proposal moves to the Provost's Office for routing**

Vice Provosts informed

Deans' Council recommends

Executive Vice Chancellor and Provost approves\*

Chancellor's Cabinet recommends

University Council informed

Board of Trustees subcommittees informed

Chancellor approves

Accreditation Liaison prepares SACSCOC letter, if applicable

\* Signature is required on the Memorandum of Agreement (MOA)

## **MEMORANDUM OF AGREEMENT FOR DUAL DEGREE PARTNERSHIP**

### **Collaborative Academic Agreement**

**Establishment of a dual degree with North Carolina State University requires completion of this Memorandum Of Agreement (MOA) and signatory approval by the Provost. In addition, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) requirement must be notified prior to implementation of this agreement.**

Complete the following and provide thorough explanation and answers to each item.

#### **I. NC State Participation:**

Level of Degree: **Bachelor**

College Participating: **Poole College of Management**

Other Participating College(s), if applicable: **n/a**

Full Title of Degree Conferred (Include concentration title if applicable.): **Bachelor of Business Administration | Concentration Options include Finance, IT, Marketing, Human Resource Management, Entrepreneurship, Supply Chain Management**

Name and contact information for the primary developer of Agreement: **Robert Sandruck**

Name and contact information for the program coordinator, if different from developer: **n/a**

#### **II. Participating Partner Institution: If multiple partners, complete separate form for each**

Name of Partner Institution: **NEOMA Business School**

Location of Institution: **Reims, France**

Name and contact information for the primary developer of this Agreement (include address, phone, email, etc.)

**Frédéric Beaumont, Program Director CESEM Program**  
**ADDRESS: 59 rue Pierre Taittinger, 51100 Reims FRANCE**  
**PHONE: +33 (0)3 26 77 46 98**  
**EM: [frederic.beaumont@neoma-bs.fr](mailto:frederic.beaumont@neoma-bs.fr)**

**Celine Davesne, Associate Dean**  
**ADDRESS: 1 Rue du Maréchal Juin, BP 215, 76825 Mont Saint Aignan Cedex, France**  
**PHONE: +33 (0)2 3282 5760**  
**EM: [Celine.DAVESNE@neoma-bs.fr](mailto:Celine.DAVESNE@neoma-bs.fr)**

Name and contact information for the program coordinator, if different from developer: **N/A**

Level of Degree: **Bachelor**

Full Title of Degree Conferred (Include concentration title if applicable): **Bachelor of International Management | NO CONCENTRATIONS**

Partner Institution Accreditation Status: **French Ministry of Education**

Other Accreditation, Licensure or Approving Body Information (Ex: ABET, EQUIS/EFMD, AACSB): **AACSB, EQUIS, AMBA (Triple Business accreditation)**

Duration of Agreement: (Minimum 5 years. Unless otherwise specified – prior to end of 5th year, agreement must be approved for extension.) **5 Years**

**III. Timeline:** (Note that the program cannot begin recruitment or matriculation of students until after SACSCOC notification and/or approval. SACSCOC reviews new program proposals twice per year.)

Proposed Start Date of Agreement: **On going as this a renewal**

Expected Date for recruitment and advertising: **On going as this a renewal**

Expected Date of student matriculation/enrollment in dual degree program: **On going as this a renewal**

**IV. Attachments: In addition to this MOA, attach other applicable documentation and list each attachment/appendices below: (ex: SACSCOC prospectus, letter of support from College Dean and/or Provost, organizational charts, faculty CV's)**

1. Dean's Support Letter
2. Curriculum Alignment Document - NC State to NEOMA Business School  
Curriculum Alignment Document - NEOMA Business School to NC State
3. NEOMA Academic Program & Course Information
4. IPBS Agreed Upon Module Structure
5. Dual Degree Program Terms and Conditions
6. Faculty CV's & Summary Table
7. NEOMA Ranking and Accreditation
8. Poole College's BSBA Assessment Plan
9. IBDD Budget Documentation

**V. Collaborative Objectives:**

1. What is the purpose and benefits of the dual degree partnership?

The purpose of the International Business Dual Degree Program is to provide students with an immersive international experience that combines the study and practice of international business, domestic and international work experience and fluency in a second language. Students who graduate from the IBDD Program are well prepared to become successful business professionals and leaders.

Additionally, it provides students the cultural exposure to two or more regions of the world. By living, studying, and working in two different countries and in two different languages, students become culturally fluent in a global environment.

Finally, the program benefits NC State and the Poole College of Management by diversifying the Poole classroom with students from France (and our other partner schools). These students are academically strong (the average GPA from International students who completed the program is 3.88). In the end we are also creating an alumni network throughout Europe and other areas of the world.

2. What evidence of institutional/program comparability exists (rankings, joint faculty research, publications, etc.)?

NEOMA is well ranked in many international rankings. Overall, NEOMA is ranked 41st place (40th in 2017). The School is ranked 9th among French Schools (Financial Times). The CESEM program (the program student enter in the dual degree program) is ranked 5th in undergraduate business programs in France (Le Point). Finally NEOMA is ranked 19th in the world and #4 among French “Grande Ecole” programs (the Economist).

Faculty between the two schools are researched focused and have begun to work together on joint research effort. Dr. Mark Walker is the recipient of the 2019-20 Global Faculty Seed Grant in the Poole College of Management where he will work in partnership with Dr. Tri Trinh from NEOMA Business School on studying “Institutional Investors’ Distractions and Corporate Innovation.”

Finally Poole and NEOMA are compatible in our other student engagement efforts. NEOMA remains a great host of our semester exchange students who study in Reims or the Rouen campuses for a semester or academic years. Additionally starting in 2019, NEOMA graciously hosted Poole Summer Group program in Finance on the Reims campus. Through this partnership we took 24 students to NEOMA for a seven week program in Finance. The success of this program allows Poole to create a second track for Summer 2020 where we will also offer an upper level marketing class and take 50+ students to NEOMA.

3. What are the areas of mutual interest? Past partnerships?

NEOMA (formerly Reims Management School) has been a long time partner of the Poole College of Management. The dual degree program since 2009 when we first established the dual degree program. Since that time, we have developed and continue to expand our exchange program were NC State students and as mentioned above we have developed the Summer Faculty Led Group Program at NEOMA. As the partnership has developed we are creating avenues for joint faculty research (as mentioned above) and faculty exchange opportunities.

The partnership is built on the dual degree program. NEOMA (and our other partners) have an abundance of students who are interested in pursuing the dual degree program at NC State. Poole has more challenges finding the same number of students who have the language skills needed for the program so NEOMA has been very helpful in supporting the semester and summer opportunities outlined above.

4. What are the Partner Institutional priorities?

Based on the NEOMA website, NEOMA Business School ambition is to be an “innovative challenger to the major international business schools. By adopting a more flexible approach, characterised by the ‘test and learn’ method and driven by the desire to push back boundaries, NEOMA Business School has opted to move out of its comfort zone. The School not only seeks to follow innovations, but also to create them. To meet this ambition to be a challenger, NEOMA Business School is focusing on 3 main areas.

1. Focusing on educational innovative: by anticipating transformations and new learning methods, with an experiential and digital dimension at the heart of this project
2. Reinventing the international experience: our global network of 300 outstanding universities contributes to enhancing the student exchange experience, which is always more meaningful when spent in "immersion" abroad.
3. Applying 360° expertise: by developing the synergies of its various activities (programmes, research, Executive Education and business) through the setting up of five centres of expertise aimed at maintaining close contact with the issues of business transformation:
  - “Fintech & Cryptofinance” centre,
  - “Mobility” Centre,
  - “Entrepreneurship” centre,
  - “Europe-Asia” centre,
  - “Audit & Consulting” centre.

#### 5. How does this agreement fit with NC State Institutional Mission?

As indicated in NC State's mission statement, the University "promotes an integrated approach to problem solving that transforms lives and provides leadership for social, economic, and technological development across North Carolina and around the world." This section of the mission statement is at the heart of this program. Through this program, NC State/Poole College of Management and NEOMA Business School will have a significant impact towards NC State achieving its mission.

As we look to renew this program, it is worth noting that in the current strategic plan "the pathways to the future: NC State's 2011-2020 strategic plan", the board of trustees outlines two specific initiatives that are relevant to this program. Goal 1 states that NC State shall enhance the success of our students through educational innovation. This program is an innovative approach to business education and recognizes the need to be "globally engaged." Students will take classes on two different campuses in two different locations in the world. In doing so, students will be engaged in an innovative learning environment where they will obtain a diverse array of knowledge. The strategies outlined in this goal address the interest of increasing the percentage of incoming external undergraduate transfer students and increasing the geographic diversity of the undergraduate class by enrolling more international students. Students participating in this program will be from outside the United States and will apply as international transfer students thus contributing to both of these strategies.

The fifth goal of the strategic plan is to "enhance local and global engagement through focused strategic partnerships." This goal is further outlined with three strategies including: "support and provide opportunities for increasing students' civic and global knowledge, experience, and perspectives;

support and provide incentives for faculty and staff to engage in collaborative global scholarship; and enhance active and sustainable partnerships, locally, regionally, and globally." This program is clearly in line with this goal and supporting strategies. We will increase students' civic and global knowledge, provide opportunities for collaborative faculty teaching and research between the two schools, and enhance a strong partnership between NEOMA and NC State University.

#### 6. How does this agreement fit with the NC State College's Mission?

The Poole College's mission states that the college will "engage with industry and academia to create an innovative and collaborative intellectual environment that fosters learning, scholarship and service. We focus on developing and supporting leaders with an entrepreneurial mindset and analytical problem solving capabilities to positively impact our data-rich, dynamic, global economy."

This dual degree program is innovative. It is also collaborative. The dual degree program is an innovative approach to business education that meets the needs of this global data-driven economy. It requires collaboration between two business schools, one in North Carolina and one in France and collaboration between the students who are with other students from around the world. And through careful curriculum alignment, students gain the entrepreneurial and analytical mindset in the most globally focused environment

The end result are graduates who demonstrate NC State's and Poole's mission and who are distributed geographically around the world.

### **VI. Administration:**

1. How was the proposed dual degree developed? Describe the process by which NC State faculty worked with the partner faculty to plan program content, select courses, and choose mode of delivery. The International Business Dual Degree Program (IBDD) was developed as an outcome of Poole College's membership in the International Partnership of Business Schools. Under the leadership of Ira Weiss, Poole joined IPBS with the desire to create dual degree programs with the IPBS partner. NEOMA Business School (formerly Reims Management School - RMS) was Poole's second partner.

The original dual degree proposal was approved in 2009. The renewal of the agreement was delayed due first to a merger between Reims Management School and Rouen Management School that eventually created NEOMA Business School. Once the merger was complete, staff changes occurred and 18-24 months ago, Mr. Frédéric Beaumont was hired as the Program Director CESEM Program. He initiated substantial curriculum changes making it impossible to renew the agreement until the new curriculum alignment was completed. That was completed in Spring 2019 and approved by the Poole College Curriculum Committee last semester.

During the approval process, Robert Sandruck, Director of Global Programs, Dr. Jason DeRousie, Director of Curriculum and Scheduling, and Dr. Tamah Morant, Associate Dean for Undergraduate Programs work with the department faculty and curriculum committee members to review the course alignment and approve the movement of the renewal of the French track of IBDD.



The selection of courses is defined by two separate elements. First, students are earning both degrees at the two schools (Poole and NEOMA). As such, students must take the required courses for both degrees. This is able to be done as some courses are the same and can be cross listed. Others that are unique to one school (science classes @ NC State) are considered regional courses and must be taken at the appropriate school. Additionally, IPBS has an agreed upon curriculum module which outlines courses that should be taught in years one and two and other courses that are designated for years three and four. This module includes all of the courses required for a Poole BSBA degree plus a few extra. It also allows the members of IPBS to move students to and from the various campuses as they all have similar backgrounds. The faculty has reviewed the curriculum module and approved the course alignment.

2. How will the proposed program be administered? Include detail regarding each partner responsibilities related to administration, academic policy enforcement, logistics, and student recruitment, registration, admissions. Attach organizational chart and recruitment timeline if applicable. (Examples of recruitment materials may be requested when pursuing SACSCOC approval).

NEOMA Business School and the Poole College of Management have a designated staff member who serves as the Program Director of the dual degree Program. At NEOMA, Mr. Frédéric Beaumont serves as the Program Director CESEM Program. In the Poole College of Management, Mr. Robert Sandruck serves as the Program Director of IBDD.

Each school is responsible for recruitment, admissions, and records and registration for students who are on their campus. For example at NC State, Poole manages the recruitment of entering students in year one as well as managing the course registration, career development support, etc. We also manage the admissions process (as transfer international admissions) and course enrollment and advising, and finally career development for students internship preparation.

Policies and procedures are followed on the campus where the students are studying. For instance a year three student who is at NEOMA follows the policies and procedures of NEOMA. That being said, NC State policies (including student conduct) are still applicable as needed.

An electronic copy of the IPBS recruiting brochure is attached.

3. How will tuition and fees be coordinated? Include detail regarding student enrollment and tuition at each Partner Institution. Include a statement regarding student financial responsibilities, such as "Students are responsible for personal expenses, transportation, textbooks and other course materials, and any required educational fees or taxes."

Tuition and Fees are collected by the home institution for the duration of the four years of the program. Additionally students must maintain health insurance that is acceptable in the host country. For students starting at NC State, they must have international health insurance as required by the UNC System (currently GEO Blue). International students are also required to have health insurance that is acceptable to NC State. This can be the policy offered to students by NC State or if approved via the waiver process, an policy from the students' host countries. Living expenses are paid for locally at the location where students are residing. That can be on campus at NC State for first year students or in apartment and student residence facilities in Raleigh or abroad. As indicated, students are responsible



for travel cost to get to and from France as well as local ground transportation, personal expenses, and other living expenses.

4. Proposed NC State SIS sub-plan code for designated students participating in dual degree. The sub-plan identifying the dual-degree students must align with the SIS plan code for the NC State degree program (max 10 char).

We have two existing subplans for the IBDD Program as a whole which includes all partners. One is for incoming students and one is for outgoing students.

- 20BUSIPBS - Intl Partner Bus Sch-Outgoing
- 20BUSAIPBS - Intl Partner Bus Sch-Incoming

We need to create separate subplans for each of the outgoing tracks (by partner) to track the additional courses students take for the second degree (from NEOMA for this proposal) which transfer back to NC State to maintain full-time enrollment status. With this in mind, I would propose the following subplan for the French track of the IBDD Program with NEOMA Business plan

- 20BUSIPBSF - Intl Partner Bus Sch-Outgoing (using F to identify the French track)

**VII. NC State Policy Disclaimer for this agreement:**

“Students participating in this coordinated dual degree program will be subject to all applicable policies and regulations at all Partner Institutions, even during semesters enrolled at the partnership institution(s).”

**VIII. Expected Annual Student and Faculty (if applicable) Participation during each year of the agreement:**

	Year 1	Year 2	Year 3	Year 4	Year 5
NC State					
Students	5	5	5	5	0
Faculty	1	1	1	1	0
NEOMA					
Students	5	5	5	5	0
Faculty	1	1	1	1	0

## **IX. CURRICULUM DESIGN:**

1. Provide an overview of how the degree requirements for each Institution will be completed as part of this dual arrangement.

Poole uses the IBPS course model structure to help organize the curriculum to ensure the degree requirements of both schools are met. This structure provides a framework to ensure common business courses are scheduled and that courses that are specific to an institution's degree are met.

Also, Poole and NEOMA have done a course-by-course alignment to document exactly what courses are taken and how they align to required courses at each school. Both the IPBS course model structure and the course alignment document are attached.

2. Provide list of NC State course requirements for degree and equivalency to related courses at Partner Institution. (Attach as semester-by-semester display of course requirements and provide a list of course requirements and equivalencies for the dual degree program):

Please see the attached curriculum alignment document

3. Provide list of Partner Institution's course requirements, analysis of course content, and equivalency to related courses at NC State.

Please see attached CESEM Course Catalogue which outlines the course requirements (page 25) and the course descriptions. The curriculum alignment document outlines the equivalencies for NC State courses.

4. Describe how and when transfer courses will be evaluated.

The course evaluations have been reviewed and approved by the College's curriculum committee (Spring 2019). The curriculum alignment document will be reviewed annually and if NEOMA makes any curriculum changes, the changes will be reviewed. If it is a course change, the review process will follow the College's established review process for students who study abroad and transfer credit back to Poole.

Credits will be transferred back on an annual basis, normally in August allowing time for the semester to end in NEOMA and for their program team to send us transcripts.

5. If Thesis requirement, provide details (supervision/credit).

NEOMA does require a thesis. It is a part of the NEOMA degree plan and thus is administered, supervised, and graded by NEOMA faculty. Each student is assigned a faculty mentor at NEOMA to oversee the student's research and writing.

6. What is the total percentage of courses taken at Partner Institution?

Fifty percent (50%) of the courses will be taken at NEOMA Business School

7. What is the total percentage of courses taken at NC State? (At least 50% of hours for graduate programs and at least 25% for undergraduate programs must be taken at NC State).

Fifty percent (50%) of the courses will be taken at NC State

8. To be eligible for a bachelor's degree, a student must have earned at least 30 of the last 45 hours of credit through NC State courses. If this requirement will not be met, please provide justification to explain.

For outbound students (those who start at NC State), they will not meet the residency requirement as they will be taking the second two years of coursework abroad. The program is designed as a 2+2 program where students are abroad for the last two years of the program making it impossible for them to meet the requirement.

9. Transfer hours allowed by NC State. Yes, the courses taken by students starting at NEOMA in years one and two transfer to NC State and are applied to the BSBA degree audit as outlined in the curriculum guidelines. We also transfer back the credit taken at NEOMA for students who complete years three and four (appendix 2, page XX).

10. Transfer hours allowed by Partner. Likewise, NEOMA transfers credit taken by students starting at NC State in year's one and two. They also transfer back the credit taken in years three and four by the students who started the program at NEOMA. (appendix 2, page XX)

11. Will course credit from Partner Institution count toward NC State GPA calculation? (If yes, explain)  
No, course credit taken at NEOMA Business School will not transfer back to NC State. We only transfer back the academic credit.

12. Describe other requirements. (residence, comprehensive exams, internships, language, etc.)

The dual degree program includes two internships in a business or nonprofit in home and host countries. The internships are a central part of the IPBS agreed upon module structure with the goal of providing students with two work experiences in the countries in which the study and live. These internships give students an opportunity to gain professional experience in two different countries and to begin to understand the cultural difference in work settings. The internships for the partnership with NEOMA range from three to six months in length. For students starting at NC State, they complete a 3 month internship after the second year of their studies and just prior to moving abroad. This is then followed by a six month internship in their sixth or eighth semester of the program. For students starting at NEOMA, they complete a six month internship in France in semester and once at NC State they complete either a six month internship in semester

13. Provide list of courses that will be offered totally online and in hybrid format. Indicate the applicable format next to each course. All courses offered at NEOMA are offered in person. Nothing is taught totally online or in a hybrid format.

14. Will NC State courses be offered at an off-campus site either through DE or face-to-face? If so, has the site been approved by SACSCOC? All NC State courses will be taught in the main campus in Raleigh, NC

**X. ASSESSMENT/MEASURABLE OUTCOMES:**

What are the measurable student learning outcomes for this academic arrangement and how will they be assessed? Note: Outcomes for the existing degree must be met in the dual degree arrangement, and a copy of the most recent assessment plan must be attached to all Memorandum of Agreement renewals. Provide any additional outcomes related to the academic collaborative arrangement.

Since the IBDD program is overset on the Bachelor of Business Administration (BSBA) Program, the learning outcomes for the program match the learning outcomes of the BSBA program. The assessment of these outcomes is managed at the College level. Dr. Roby Sawyers, Professor of Accounting serves as the Director of Assessment and Accreditation for the College and oversees the assessment efforts. Attached is the College's assessment plan of the BSBA Program. See Appendix III on page 30 for the specific learning outcomes.

Additionally, the Office of Global Programs in the Poole College of Management has developed an assessment plan for all our the college's global programs for students. This culturally competency based assessment effort started in 2017 with the assessment of our summer program. As seen from the attached assessment plan, we anticipate conducting culturally competency assessment of the students in the IBDD Program. This is a challenging effort given students starting at NC State take four years to complete the program. It will require dedicated staffing and extended assessment efforts over longer periods of time. It is our goal to start this assessment effort.

**XI. FACULTY CREDENTIALS FROM THE PARTNER INSTITUTION:**

1. Provide a list of the faculty directly involved in teaching courses as part of this program of study. Attach the CV for each.

Please see appendix 6

- a. Faculty at Partner Institutions who wish to serve as NC State Graduate Faculty members, advising graduate students and serving on graduate student advisory committees, must be nominated to the Graduate Faculty. Contact the Graduate School for more information.

<https://www.ncsu.edu/grad/handbook/sections/1.3-grad-faculty.html>

**XII. INSTITUTIONAL COMMITMENT AND RESOURCES:**

NC State University:

1. Provide description of NC State's commitment to this academic arrangement.

NC State's Commitment is to accept approximately 5 students annually from NEOMA (who meet admissions requirements for international transfer admission at NC State. Once accepted, NC State provides visa documentation and enroll students into a pre-set schedule of courses at NC State. These courses are based on the curriculum alignment document (appendix XXX) and takes into account the credits transferring into NC State and what credits/courses are remaining. NC State also provides career development support for these students to find an internship in the United States. This is coordinated by the Poole's Office of Global Programs and Career Development Center.

NC State also is committed to recruiting U.S. based students who start at NC State and complete the program at NEOMA in years three and four. All the students in the program are assigned an academic advisor in Poole and are mainstreamed into the courses and academic life of the program.

Finally, NC State provides administrative oversight of the program to ensure the program operates effectively across all five language tracks.

2. Provide detail regarding the funding for this arrangement (amount, source, duration).

Funding for the IBDD Program is integrated into the Office of Global Programs. Since we do not offer special courses/sections for there are no faculty related expenses. Attachment XXX outlines the financial costs of the program (for all 5 tracks) and allocates 20% of the total cost to the French track with NEOMA Business School.

As see from the attachment, the overall annual cost is \$8,606.00

3. Provide detail regarding facilities and space (amount, source, duration).

The IBDD Program is managed in the Poole College of Management and is based in Nelson Hall. No specific space is allocated or needed for the program as students are integrated into the existing BSBA program.

4. Provide detail regarding library resources (amount, source, duration).

NC State's library resources are the primary source for data and research needs for the academic coursework taught at NC State. The Libraries are of a research 1 level University and adequately meets the needs of the students.

5. Provide detail regarding equipment required for this arrangement. **None required.**

6. Other:

The IBDD Program is an important part of Poole's overall strategic global efforts. It is a marquee program that attracts U.S. students to NC State who otherwise would select other universities like the University of South Carolina (ranked #1 in International Business). It also allows Poole to enroll a group of talented international students who enrich the classroom setting for all Poole students and who upon graduating from NC State help the University and Poole create an increasing international alumni base in France and across Europe and Asia.

Additionally it provides a framework in which Poole has built a broad portfolio of study abroad programs. NEOMA Business School is one of Poole's preferred semester exchange partners where Poole can send students for a semester or academic year in an exchange model. NEOMA allows us to send students and does not send us students in the exchange program. Additionally they are working to offer courses that work best for our students.

Starting in Summer 2019, NEOMA has hosted one of our summer group programs. In 2019 we sent 24 students to NEOMA for six weeks for a program in international finance. While the program is taught by our faculty, NEOMA program academic and programmatic support for the program at little to no cost to Poole. In 2020, we are running two programs and plan to send 50+ students.

The combination of semester exchange opportunities and the ability to host Poole Summer Programs at NEOMA provides a deeper partnership with this school. Also, this year, we will send our first faculty member to NEOMA to conduct some research with a faculty member at NEOMA. Our broader goal is to develop our partnership at multiple levels allowing as many students and faculty to be engaged.

#### Partner Institution:

##### 1. Provide description of Partner's commitment to this academic arrangement.

NEOMA Business School is managing a portfolio of business programs. The CESEM's program (the dual degree program offered in partnership with NC State and our other international partners), is one of these programs. This program is fully supported by NEOMA's ecosystem (faculty, HR, marketing, Talent&Career, Registrar, Hub, general services, alumni, etc.). In addition, this program is run by a team of 5 administrative people (including a program director) who manage the quality of the program delivered, help students to be successful, recruit good students, develop new partnerships, work to continuously improve the program in partnership with our academic partners like NC State.

In order to improve the relationship with NC State and the quality of students who go to NC State in year three, NEOMA changed the rules that students must earn a 12/20 compared to the normal passing grade of 10/20 in the first two years of study at NEOMA. Year 1 and year 2 students also take a large portion of their business education taught in English at NEOMA (nearly 80%) to ensure the students English language skills are appropriate to ensure their success at NC State. NEOMA also changed the required English courses students take in the first in order to improve the general ability of their students to write in English more properly.

##### 2. Provide detail regarding the funding for this arrangement (amount, source, duration).

The program enrolls a total of 1300 students. We recruit 250 new students per year thanks to a competitive entrance (2500 applicants for 250 seats). Tuitions is 9,950 euros per year for each of the years of study. This program is contributing to the NEOMA's budget and sufficient to cover the direct and indirect costs of the program.

##### 3. Provide detail regarding facilities and space (amount, source, duration).

NEOMA Business School has three different campuses in France (Paris, Rouen, and Reims). The IBDD Program is offered on the Reims Campus which is located one hour east of Paris. The NEOMA Business Schools campus in Reims consists of two main buildings located near the center of the city. The two buildings which are in two on two different land parcels According the the NEOMA website,

*"The NEOMA Business School Reims campus is on two sites with a contemporary architectural style, located just five minutes from each other by tram. The campuses are equipped with state of the art teaching equipment : interactive whiteboards, simulation rooms, trading rooms, language labs, student society offices, multi-media library, student life areas, etc. A multimedia environment offering innovative learning can be accessed on and off campus: e-learning platform, remote access to the School's databases and documentary material (e-books, electronic periodicals, specialised databases, etc.)."*

Staff and faculty from Poole have visited the campus and inspected the academic facilities. All agree the facilities adequately meet the needs of the program. Furthermore, NEOMA is building a new campus in Reims with an expected completion date of 2024. At that point, all the facilities will be on one land parcel and have new and modern educational facilities.

4. Provide detail regarding library resources (amount, source, duration).

NEOMA maintains a modern library for business education that includes books, journals and databases related to management studies. It is smaller than the libraries at NC State, but given the size of the school and the focus on management education it is appropriate. More information on the library is available at <http://library.neoma-bs.fr/en/>.

5. Provide detail regarding equipment required for this arrangement. **None required.**

6. Provide detail regarding any institutional policy or practice that would prohibit student participation based on race, gender, ethnicity, or religion.

In accordance with its educational policy that highly values diversity, and in accordance with French law, NEOMA Business School recognizes the right of all learners to demonstrate their religious belief, as long as this does not disturb public order and does not infringe the principles of secularity as laid down by law. The French Education Code specifically stipulates that “public higher education is secular and free of any political, economic, religious or ideological influence: it seeks to preserve the objectivity of knowledge: it respects diversity of opinion. It must ensure that education and research are free to continue their scientific, creative and critical development” (Article 141.6). In this context, any form of proselytising that calls into question freedom of conscience and expression, or the equality and dignity of any person, whether learners, or teaching and administrative staff, is forbidden at NEOMA Business School.

7. Other: **See previous “other” section above.**

### **XIII. REVIEW SCHEDULE FOR AGREEMENT:**

All agreements will be for a period of five years, unless otherwise specified. If requesting a renewal, nine months prior to the end date of the agreement the required renewal documentation must arrive at the Graduate School or the Office of Undergraduate Courses and Curricula and Academic Standards. This will provide continuity in the university review process. Upon the scheduled review date, responses to review criteria will be required to be completed and provided to the university review committee. If the agreement will be discontinued, a teach-out plan will be required for those students remaining in the program. Results of the most recent assessment plan must be attached to renewal documents.

As part of this agreement, specify the following:

1. What criteria will be used by the participating NC State College to determine whether the program should continue?

The Poole College of Management aligns initiatives and efforts to our strategic goals, which are the same as the University’s goals. In reviewing our goals the IBDD Program aligns with Goal 1: Enhance Student Success; Goal 2: Invest in Faculty and Infrastructure, and Goal 5: Engage



## Locally and Globally.

Goal 1 astounds that NC State will provide “educational opportunities that inspire them to lead, serve, challenge, take responsibility, build problem-solving skills and engage with complex problems.” The IBDD Program embodies this goal by providing a unique opportunity to study, work, and live abroad for two years, two learn to languages and cultures, and to engage in complex problems and develop a high level of cultural competency and problem solving skills.

The IBDD Program is now allowing Poole to build connections between the faculty of NEOMA Business School and the Poole College of Management. While in its infancy, this is a great tangail outcome of the program.

In Goal 5, the University charges the NC State community to “expanded beyond North Carolina’s borders and across the globe, challenging us to be locally responsive to the needs of our community and our state while globally engaging the grand challenges facing our international community.” IBDD does this with ease. We engage locally with companies that host students with internships and we are globally engaged with students in France and the other countries partnering with NC State in the IBDD Program.

Another factor Poole uses to evaluate if the program should continue is to look at the balance of student exchanges. In this case, we are out of balance based on an exchange among dual degree students. But as outlined earlier, Poole is building a broader relationship with NEOMA to allow semester and year long exchange students to study abroad at NEOMA and for them to host our summer group program each year. We are working with colleagues in the Office of Global Engagement to create a model that includes these efforts in our balance counting.

Lastly, we will look at the financial cost of operating the program. Financial resources are not unlimited so the College always evaluates programs on the financial viability. As seen from the budget review in appendix 4, the overall program includes cost for staffing, programming, and travel. With the exception of the Director’s salary allocation, all the other costs are funded through non state allocated funding that is generated by the Office of Global Programs.

2. In what year will this agreement be evaluated (if not 5 years from the original effective date)?

The Program will be evaluated for continuation in 5 years (2025) or beforehand if both Poole and NEOMA determine a review is needed.

## **XIV. SACSCOC disclaimer to be followed as part of this Agreement:**

For agreements with Partner Institutions that are not accredited by SACSCOC, the following disclaimer must be included in the Memorandum of Agreement and in any advertised postings by the Partner Institution in compliance with SACSCOC procedures related to collaborative academic agreements. The NC State program coordinator for this agreement must monitor the Partner Institution’s statements of relationship to ensure conformance with this disclaimer. In addition, neither Member nor Partner Institution(s) may use the SACSCOC logo. Its use is reserved exclusively for the Southern Association of Colleges and Schools Commission on Colleges.



**Disclaimer Statement:**

“North Carolina State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award [state degree levels]. [Name of Partner Institution] is not accredited by the Commission on Colleges and the accreditation of North Carolina State University does not extend to or include [name of Partner Institution] or its students. Further, although North Carolina State University agrees to accept certain course-work from [Name of Partner Institution] to be applied toward an award from North Carolina State University, that course-work may not be accepted by other colleges or universities in transfer, even if it appears on a transcript from North Carolina State University. The decision to accept course-work in transfer from any institution is made by the institution considering the acceptance of credits and course-work.”

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**XV. SACSCOC Prospectus**

The SACSCOC Prospectus should be attached to this document.

Please see <http://www.sacscoc.org/forms/principle/Prospectus-SubstantiveChange.docx> regarding SACSCOC prospectus requirements. For procedural guidance, please contact the Graduate School or the Office of Undergraduate Courses and Curricula and Academic Standards.

**XVI. This agreement must follow the stipulations listed below to be in compliance with NC State and SACSCOC policies:**

- The SACSCOC disclaimer is included in this agreement and will be included in any marketing for this dual degree arrangement.
- This agreement requires at least 25% of the credits for an Undergraduate program and 50% for a Graduate program be awarded by NC State.
- The SACSCOC logo does not appear on this agreement and will not be used by the NC State or the Partner Institution.
- The Partner Institution will provide timely access to their materials, physical site(s), and personnel in conjunction with accreditation reviews, if requested.
- This agreement will be reviewed in 5 years from the date of final signature.
- The signing of this agreement and any supporting documentation assures compliance with the requirements of this Memorandum of Agreement. Any changes will require approval by the signatories and other approval bodies as applicable.

**XVII. General Provisions**

1. **Contact Person and Notices.** All notices under this Memorandum of Agreement should be delivered in writing, signed by the party giving notice, to:

	<b>NC State</b>	<b>NEOMA Business School</b>
Contact Name	Robert Sandruck	Frédéric Beaumont

Title	Director of Global Programs	CESEM Director (Bachelor in International Business Management)
Office	Poole College of Management	NEOMA Business School
Address	2801 Founders Drive Raleigh, NC 27540	59 rue Pierre Taittinger, 51100 Reims
Phone	+1 919.515.2215	+33 (0)3 26 77 46 98
Email	rlsandru@ncsu.edu	frederic.beaumont@neoma-bs.fr

2. **Termination of this Agreement.** This agreement may be terminated by either party upon ninety (90) days written notice to the other party. If the agreement is terminated, any participants identified previously to the termination of the agreement will be allowed to complete their programs.
3. **Costs.** Each party shall be responsible for its own costs and expenses in implementing this program.
4. **Transfer.** Neither party may assign, delegate, or otherwise transfer any obligations under this Memorandum of Agreement without the prior written consent of the other party.
5. **Use of Marks.** Neither party shall identify the other in any promotional advertising or other promotional materials or to use the name of either party's trademarks, service marks, symbols, nicknames, or logos of either party, without the prior written consent of the other party, except to identify that the parties have entered into this Memorandum of Agreement.
6. **Compliance with Applicable Law.** The Partner Institution shall comply will all laws, ordinances, codes, rules, regulations, and licensing requirements that are applicable to the conduct of its business, treatment of personal information, and local agencies having jurisdiction and/or authority.
7. **Severability.** If any provision of this Agreement is held to be invalid or unenforceable for any reason, this Memorandum of Agreement shall remain in full force and effect in accordance with its terms disregarding such unenforceable or invalid provision.
8. **Entire Agreement.** This Memorandum of Agreement contains the entire agreement of the parties and there are no representations, inducements or other provisions other than those expressed herein. All changes, additions or deletions to this Memorandum of Agreement shall be in writing and executed by the authorized representatives of both parties.

## Signatures – Memorandum of Agreement

IN WITNESS WHEREOF, the authorized representatives of the parties have executed this agreement on the date(s) indicated below:

The signing of this agreement and any supporting documentation assures compliance with the requirements of this Memorandum of Agreement. Any changes will require approval by the signatories and other approval bodies as applicable.

## NC State Signatures

## Partner Institution Signatures

<div>           DocuSigned by:  <i>Frank Buckless</i> </div> <div>           Dean            Poole College of Management         </div>	<div>           April 14, 2020         </div> <div>           Date         </div>	<div>           Dean            NEOMA Business School         </div>	<div>           Date         </div>
<div>           Dean DASA         </div>	<div>           Date         </div>	<div></div>	<div>           Date         </div>
<div>           Executive Vice Chancellor            and Provost         </div>	<div>           Date         </div>	<div></div>	<div>           Date         </div>

## Appendix List

APPENDIX 1 - DEAN'S SUPPORT LETTER

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## APPENDIX 1 - DEAN'S SUPPORT LETTER



Poole College of Management  
Office of the Dean

Dr. Frank Buckless  
Stephen P. Zelnak Jr. Dean

Campus Box 8614  
Nelson Hall 2102  
Raleigh, NC 27695-8614  
P: 919.515.4442  
poole.ncsu.edu

Dr. Warwick Arden  
Provost  
Holladay Hall 102A, Box 7101  
North Carolina State University  
Raleigh, NC 27695

Dear Provost Arden,

It is my pleasure to provide this letter of support for the NC State/NEOMA International Business Dual Degree Program (IBDD). This program is a 2+2 program where students spend two years at their home institution and two years at the host institution where they take most, if not all of their courses in the second language (in this case, French). During the four years of the program, students also complete two internships; one in each country, with a total of 9-12 months professional work experience.

This program is offered in a bi-lateral, exchange format. As such, the Poole College of Management receives students from NEOMA each fall who start the second half of the program at NC State. Likewise, each year we send students to NEOMA who started as first-year students at NC State and who complete the dual degree program abroad in Reims, France. It is impressive to see the students who started at NC State and graduate from this program immediately develop internationally focused business careers. One is working for Google in Dublin, another came back to the United States and is now transferring to London for a small investment bank, and a third, who was our first graduate from this program is working on her Executive MBA in Paris with funding from her employer, Biomerieux.

NEOMA is one of Poole College's strategic partners. As members of the International Partnership of Business Schools (IPBS), we both work with 11 other leading business schools across the world on the delivery of this dual degree program. Our partnership with NEOMA has expanded over the past seven years. We are now partnering to send NC State students to their campuses in Reims and Rouen, France for semester abroad programs and NEOMA has graciously offered to host a faculty-led Maymester program which we started in 2019. Finally, our faculty are starting to engage in collaborative research and through the IPBS network, we are planning on developing faculty exchange opportunities.

The dual degree program has allowed Poole to develop a deep, strong partnership with NEOMA. Instead of engaging with multiple partners on various initiatives, Poole is developing breath in our partnership with NEOMA thus fostering a more meaningful and hopefully long lasting partnership.

The dual degree program is the cornerstone of this partnership. To date, we have 14 students in the NEOMA/NC State IBDD program. Eight of these students are from France and the remaining six started at NC State. In terms of alumni who have completed the program, the balance strongly favors NEOMA. Knowing this, the Global Programs Office is working on semester and summer programs to counterbalance the numbers. This summer (2020) we were planning to send 53 students to NEOMA for a faculty-led group program. As we look to returning to sending students abroad post COVID-19, we expect to send a significant amount of students to NEOMA each year.

As with our other dual degree programs, the NEOMA/NC State IBDD program, offers the Poole College of Management and NC State University the unique opportunity to create a globally distributed alumni network. As mentioned above, graduates of this program are already relocating around the globe.

Additionally, each year when the students from NEOMA graduate, they return to France and begin their careers which lead them to locations throughout Europe and beyond.

This dual degree program aligns well with Goals 1 and 5 of NC State's Strategic Plan. It creates innovation while fostering student success and it enhances the University global engagement through our strategic partnership with NEOMA. We are creating student success through this strong global partnership and innovative dual degree program.

As you review this Memorandum of Agreement, I appreciate all the support you provide and especially your support of this important international engagement. NEOMA is a strategic partner of the Poole College of Management and we look forward to continuing this agreement for many years to come.

Sincerely,

A handwritten signature in black ink, appearing to read "Frank Buckless". The signature is fluid and cursive, with a long horizontal stroke at the end.

Frank A. Buckless  
Stephen P. Zelnak, Jr. Dean

**APPENDIX 2 - CURRICULUM ALIGNMENT DOCUMENTS**

<b>NC STATE TO NEOMA</b>						
<b>NC STATE COURSES</b>				<b>NEOMA BUSINESS SCHOOL COURSES</b>		
COURSE NUMBER	COURSE NAME	U.S. CREDITS TOWARDS DEGREE	U.S. CREDITS NOT TO DEGREE	COURSE NUMBER	COURSE NAME	ECTS CREDITS
<b>TERM 1 @ NC STATE</b>						
ENG 101	ACADEMIC WRITING AND RESEARCH	4				
FL* 201	INTERMEDIATE LANGUAGE I	3				
MIE 201	INTRODUCTION TO BUSINESS	3				
MA 121	CALCULUS	3				
*** **	NATURAL SCIENCE WITHOUT A LAB	3				
M 100	PROFESSIONALISM, DIVERSITY, & ACADEMIC SUCCESS IN MANAGEMENT	1				
	<b>TERM U.S. CREDITS</b>	<b>17</b>				
<b>TERM 2 @ NC STATE</b>						
MA 114	FINITE MATH	3				
ACC 210	FINANCIAL ACCOUNTING	3				
FL* 202	INTERMEDIATE LANGUAGE II	3				
EC 201	MICROECONOMICS	3				
HESF 1**	PE 100	1				
PSY 200	INTRODUCTION TO PSYCHOLOGY	3				
	<b>TERM U.S. CREDITS</b>	<b>16</b>			<b>TERM ECTS CREDITS</b>	<b>0</b>
<b>SUMMER 1 @ NC STATE</b>						
HESF 2**	PE 200	1				
ST 350	STATISTICS	3				
EC 202	MACROECONOMICS	3				
	<b>TERM U.S. CREDITS</b>	<b>7</b>				
<b>TERM 3 @ NC STATE</b>						
BUS 320	FINANCIAL MANAGEMENT	3				
ST 307	STATISTICAL PROGRAMMING	1				
BUS 360	MARKETING METHODS	3				
FL* 3**	ADVANCED LANGUAGE 1	3				
ENG 332	ADVANCED BUSINESS COMMUNICATIONS	3				
COM 110	PUBLIC SPEAKING	3				
ACC 220	MANAGERIAL ACCOUNTING	3				
	<b>TERM U.S. CREDITS</b>	<b>19</b>				

TERM 4 @ NC STATE						
MIE 305	LEGAL AND REGULATORY ENVIRONMENT	3				
BUS 42*	400 LEVEL FINANCE	3				
BUS 46*	400 LEVEL MARKETING	3				
*** **	NATURAL SCIENCE WITH LAB	4				
FL* 3**	ADVANCED FOREIGN LANGUAGE	3				
IS 200	INTRODUCTION TO INTERNATIONAL STUDIES	3				
	<b>TERM U.S. CREDITS</b>	<b>19</b>				
SUMMER 2 @ NC STATE						
M 399	PROFESSIONAL INTERNSHIP IN IBDD	3				
	<b>TERM U.S. CREDITS</b>	<b>3</b>				
TERM 5 @ NEOMA						
PHI 214	BUSINESS ETHICS	3		DD32009E-3-RS	BUSINESS ETHICS	6
MIE 480	BUSINESS POLICY AND STRATEGY	3		ST32008E-2-RS	STRATEGIC MANAGEMENT	6
MIE 330	HUMAN RESOURCE MANAGEMENT	3		RH32009E-2-RS	HUMAN RESOURCE MANAGEMENT	6
<i>ELECTIVE COURSES (2 OF 4)</i>						
ACC 420	COST ACCOUNTING FOR EFFECTIVE MANAGEMENT	3		CG32019E-1-RS	MANAGEMENT ACCOUNTING & CONTROL	6
BUS 468	MARKETING STRATEGY	3		MK32031E-1-RS	STRATEGIC MARKETING*	6
BUS 420	CORPORATE FINANCE	3			CORPORATE FINANCE*	6
TR ***	IDP OR FREE ELECTIVE	3		GS32018E-3-RS	GLOBALIZATION AND INNOVATION	6
FLF 3**	FRENCH ELECTIVE	1			FRENCH AS A FOREIGN LANGUAGE	2
	<b>TERM U.S. CREDITS</b>	<b>15</b>	<b>0</b>		<b>TERM ECTS CREDITS</b>	<b>30</b>
TERM 6 @ NEOMA						
M 399	INTERNATIONAL BUSINESS DUAL DEGREE STUDENT PROFESSIONAL INTERNSHIP IN MANAGEMENT	15			INTERNSHIP	30
M ***	FREE ELECTIVE	3			PERSONAL DEVELOPMENT	6
	<b>TERM U.S. CREDITS</b>	<b>15</b>	<b>0</b>		<b>TERM ECTS CREDITS</b>	<b>30</b>
TERM 7 @ NEOMA						
BUS 370	OPERATIONS MANAGEMENT	3		SC32012E-3-RS	OPERATIONS MANAGEMENT	6
BUS 351	PREDICTIVE ANALYTICS FOR BUSINESS	3		MQ32004E-2-RS	DATA ANALYSIS AND BUSINESS INTELLIGENCE	6
BUS 340	INFORMATION SYSTEMS MANAGEMENT	3		SI32015E-2-RS	THE DIGITAL ORGANIZATION	6
MIE 435	LEADERSHIP AND MANAGEMENT	3		ML32026E-2-RS	ORGANIZATIONAL DEVELOPMENT & LEADERSHIP	6
<i>ELECTIVE COURSES (1 OF 4)</i>						



MIE 310	INTRODUCTION TO ENTREPRENEURSHIP	3		EN32016E-1-RS	ENTREPRENEURSHIP*	6
MIE ***	FREE ELECTIVE	3		ML32020E-2-RS	NEGOTIATIONS	6
MIE ***	FREE ELECTIVE	3			SUSTAINABLE BUSINESS	6
MIE ***	FREE ELECTIVE	3		ST32012E-2-RS	INNOVATION MANAGEMENT	6
FLF 3**	FRENCH ELECTIVE	1			FRENCH AS A FOREIGN LANGUAGE	2
	<b>TERM U.S. CREDITS</b>	<b>16</b>			<b>TERM ECTS CREDITS</b>	<b>32</b>
<b>TERM 8 @ NEOMA</b>						
BUS/MIE ***	CONCENTRATION COURSE	3			FINAL PROJECT	6
ELECTIVE CONCENTRATION MODULES (STUENTS SELECT TWO, ONE MUST ALIGN WITH NC STATE CONCENTRATION)						
BUS 46*	TWO MARKETING CONCENTRATION COURSES	6		MK43008F-2-RS MK43011E-2-RS MK43010E-2-RS	DIGITAL MARKETING	12
ACC ***	FREE ELECTIVE	6		CP43001F-2-RS CP43002F-2-RS CP43003F-2-RS	AUDIT	12
BUS 46*	TWO SUPPLY CHAIN CONCENTRATION COURSES	6		SC43008F-2-RS SC43009F-2-RS SC43007F-2-RS	SUPPLY CHAIN MANAGEMENT	12
MIE 41*	TWO ENTREPRENEURSHIP CONCENTRATION COURSES	6		EN43005F-2-RS EN43005F-2-RS EN43006F-2-RS	ENTREPRENEURSHIP	12
BUS 42*	TWO FINANCE CONCENTRATION COURSES	6		FI43004F-2-RS FI43004F-2-RS FI43005F-2-RS	FINANCE	12
MIE 4**	FREE ELECTIVE	6		ST43001F-2-RS ST43002F-2-RS ST43003F-2-RS	INTERNATIONAL BUSINESS DEVELOPMENT	12
	<b>TERM U.S. CREDITS</b>	<b>15</b>			<b>TERM ECTS CREDITS</b>	<b>30</b>

NEOMA to NC State						
NC STATE COURSES				NEOMA BUSINESS SCHOOL COURSES (AY 19-20)		
Course Number	Course Name	U.S. Credits Towards Degree	U.S. Credit Not to Degree	Course Number	Course Name	ECTS Credits
TERM 1 @ NEOMA						
ACC 210	CONCEPTS OF FINANCIAL REPORTING	3		CP31023F-1-RS	COMPATIBILITÉ GÉNÉRALE/FINANCIAL ACCOUNTING	6
MIE 201	INTRODUCTION TO BUSINESS PROCESS	0		BG32005E-1-RS	BUSINESS CASE COMPETITION	0
				DP31052F-1-RS I	INTRODUCTION AU BUSINESS/ INTRODUCTION TO BUSINESS	
EC 201	PRINCIPLES OF MICRO-ECONOMICS	3		EC31029E-1-RS	MANAGERIAL ECONOMICS	6
MIE 335	ORGANIZATIONAL BEHAVIOR	3		ML31020E-1-RS	MANAGEMENT & ORGANIZATIONS	6
MA 114	FINITE MATH	3		MQ31017F-1-RS	MÉTHODES QUANTITATIVES/QUANTITATIVE METHODS I	6
ENG 101	ACADEMIC WRITING & RESEARCH	2		LV3X371E-1-RS E1	ANGLAIS LC/ENGLISH LANGUAGE	4
FL* 2**	FOREIGN LANGUAGE	1		LV3X376G-1-RS G2	SECOND LANGUAGE LV2 (GERMAN, SPANISH, ETC.)	2
	<b>TERM U.S. CREDITS</b>	<b>15</b>			<b>TERM ECTS CREDITS</b>	<b>30</b>
TERM 2 @ NEOMA						
MIE ***	FRENCH BUSINESS LAW	3		AJ31040F-1-RS	DROIT DES AFFAIRES/BUSINESS LAW	6
BUS 320	FINANCIAL MANAGEMENT	3		FI31022F-1-RS	FINANCE 1	6
BUS 360	MARKETING MANAGEMENT	3		MK31062E-1-RS	MARKETING MANAGEMENT	6
BUS 350	BUSINESS AND ECONOMICS STATISTICS	3		MQ31018F-1-RS	QUANTATIVE METHODS II	6
ENG 101	ADVANCE ENGLISH WRITING	2		LV3X371E-1-RS E1	ANGLAIS LC/ENGLISH LANGUAGE	4
FL* 2**	FOREIGN LANGUAGE	1		LV3X376G-1-RS G2	SECOND LANGUAGE LV2 (GERMAN, SPANISH, ETC.)	2
	<b>TERM U.S. CREDITS</b>	<b>15</b>			<b>TERM ECTS CREDITS</b>	<b>30</b>
TERM 3 @ NEOMA						
M 399	INTERNATIONAL BUSINESS DUAL DEGREE STUDENT PROFESSIONAL INTERNSHIP IN MANAGEMENT	9		EX3X031F-1-RS	STAGE/INTERNSHIP - CESEM Y2	18
M ***	FREE ELECTIVE	3		DP31053F-1-RS	TRAJECTOIRE INDIVIDUELLE/PERSONNEL DEVELOPMENT	6
	<b>TERM U.S. CREDITS</b>	<b>12</b>			<b>TERM ECTS CREDITS</b>	<b>24</b>
TERM 4 @ NEOMA						
ACC 220	MANAGERIAL ACCOUNTING	3		CG32018F-1-RS	COMPTABILITÉ DE GESTION/MANAGERIAL ACCOUNTING	6

EC 202	MACRO ECONOMICS	3		EC32008E-1-RS	ECONOMICS OF GLOBALISATION/INTERNATIONAL ECONOMICIS	6
BUS 420	FINANCIAL MANAGEMENT OF CORPORATIONS	3		FI32012F-1-RS	LE CHOIX D'INVESTISSEMENT ET DE FINANCEMENTS/CORPORATE FINANCE	6
*** **	INTER CULTURAL MANAGEMENT	3		ML32023E-1-RS	OB/INTERCULTURAL MANAGEMENT	6
BUS 460	CONSUMER BEHAVIOR	3		MK32041E-1-RS	CONSUMER BEHAVIOR & MARKETING STUDIES	6
FL* 2**	FOREIGN LANGUAGE	1		LV3X476G-1-RS G2	FOREIGN LANGUAGE (GERMAN, SPANISH, ETC.)	2
COM ***	COMMUNICATIONS	2		LV3X467E-1-RS E1	ENGLISH COMMUNICATION SKILLS FOR INTERNATIONAL MANAGERS	4
	<b>TERM U.S. CREDITS</b>	<b>18</b>	<b>0</b>		<b>TERM ECTS CREDITS</b>	<b>36</b>
<b>TERM 5 @ NC STATE</b>						
M100	PROFESSIONAL AND PERSONAL IDENTITY	1				
BUS 370	OPERATIONS MANAGEMENT	3				
MIE 330	HUMAN RESOURCE MANAGEMENT	3				
BUS 340	INFORMATION TECHNOLOGY MANAGEMENT	3				
MIE 310	INTRODUCTION TO ENTREPRENEURSHIP	3				
ST 307	INTRODUCTION TO STATISTICAL PROGRAMMING	1				
MIE 305	LEGAL AND REGULATORY ENVIRONMENT	3				
ENG 332	BUSINESS WRITING	3				
	<b>TERM U.S. CREDITS</b>	<b>20</b>	<b>0</b>			
<b>TERM 6 @ NC STATE</b>						
M 399	Internship in IBDD	6				
	<b>TERM U.S. CREDITS</b>	<b>6</b>	<b>0</b>			
<b>TERM 7 @ NC STATE</b>						
PHI 214	BUSINESS ETHICS	3				
*** **	NATURAL SCIENCE WITH LAB	4				
HSEF 1**	PE CLASS 100 LEVEL	1				
BUS/MIE ***	CONCENTRATION COURSE #1	3				
BUS/MIE ***	CONCENTRATION COURSE #1	3				
MA 121	CALCULUS	3				
*** **	HUMANITIES	3				
	<b>TERM U.S. CREDITS</b>	<b>20</b>				
<b>TERM 8 @ NC STATE</b>						
BUS/MIE ***	CONCENTRATION COURSE #1	3				
BUS/MIE ***	CONCENTRATION COURSE #1	3				

MIE 480	BUSINESS STRATEGY AND POLICY	3				
BUS 351	PREDICTIVE ANALYSIS FOR BUSINESS	3				
PSY 200	INTRODUCTION TO PSYCHOLOGY	3				
*** **	NATURAL SCIENCE WITHOUT LAB	3				
HSEF 1**	PE CLASS 100 LEVEL	1				
	<b>TERM U.S. CREDITS</b>	<b>19</b>				

## APPENDIX 3 - NEOMA ACADEMIC PROGRAM & COURSE INFORMATION

### 1. Mission & Positioning

The mission of the programme is to create a uniquely agile manager whose solid experience of bi-cultural immersion allows them to adapt to and leverage new contexts to meet the strategic needs of international companies. The programme is open to post-baccalaureate students who wish to strengthen their multicultural employability in an increasingly global market, gifted in languages and eager to receive a rigorous instruction in management fundamentals in two different cultural and linguistic universes, the CESEM course is a Bachelor's degree in International Business Management for a period of 4 years, culminating in a double degree from Neoma BS and one of its partners after two years spent in each of the two programs.

### 2. Main Characteristics

Length of studies	<b><i>8 semesters including 4 semesters abroad</i></b>
Format	<i>Full-time – 2 years in France and 2 years abroad</i>
Total number of ECTS	<i>240</i>
Level of qualification	<i>Level II (France) Level 6 (European Qualifications Framework)</i>
Degree awarded	<i>Diplôme du Centre d'Etudes Supérieures Européennes de Management (Bachelor in International Business Management) State recognised &amp; Bachelor Degree from partner university</i>
Language of studies	<i>2 years in French and English and 2 years in the language of the host institution: English and/or , Chinese, Italian, Spanish, German and Portuguese</i>
Admission requirements	<ul style="list-style-type: none"> <li>- <i>French applicants: French Baccalaureate (1<sup>st</sup> Year)</i></li> <li>- <i>International applicants: Exchange degree seeking students from partner universities (1<sup>st</sup> Year or 3<sup>rd</sup> Year)</i></li> </ul>

### 3. Learning outcomes

Learning Goals	PROGRAM SPECIFIC			NEOMA BS	
	Understand and exploit knowledge, data and conceptual theory through the mobilisation of reflexive analysis	Master managerial skills from two different cultural contexts and mobilise them in a cross-functional capacity	Operate efficiently in global and cross-cultural contexts	Mobilize oneself and others for a common objective	Think creatively and develop added value on work processes and projects
Learning Objectives	understand and engage with the fundamental theories of each management discipline	acquire managerial skills, tools, and practices from two different economic regions	study in another language at a high academic level	work collaboratively and in multi-cultural groups	develop a fundamental understanding of systems and processes in organisations and understand how they work in two different cultures
	mobilise theory in the abstract and critically adapt theoretical models to the purpose of academic enquiry exploit international business intelligence through strategic thinking and the mobilisation of reflexive analytical skills	demonstrate reflexive recognition of differences in managerial norms and practices	communicate through different business situations and media in several languages	recognize and respect the role and importance of each actor in an organisation	critically reassess as a means to finding alternative approaches
		relate managerial practices across cultures and across disciplines	leverage the experience of cultural immersion to understand the dynamics of cultural difference	demonstrate leadership to mobilise a team around a specific purpose or project	develop unconventional synergies and methods to resolve a problem or to create value

## 4. Organization of studies

		1 <sup>st</sup> YEAR		2 <sup>nd</sup> YEAR		3 <sup>rd</sup> YEAR		4 <sup>th</sup> YEAR		
		Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester
<b>TRACK 1</b>	<b>Begin in France</b>	Core courses (Module 1)	Core courses (Module 2)	Internship 6 months	Core courses (Module 3)	Partner University				
<b>Track 2</b>	<b>Begin with partner (Model A)</b>	Partner University				Core courses (Module 4)	Core courses (Module 5)	Majors (Module 6)	Internship 6 months	
	<b>Begin with partner (Model B)</b>	Partner University				Core courses (Module 4)	Internship 6 months	Majors (Module 6)	Core courses (Module 5)	
	<b>Begin with partner (Model C)</b>	Partner University			Core courses (Module 3)	Core courses (Module 4)	Internship 6 months	Majors (Module 6)	Partner University	
	<b>Begin with partner (Model D)</b>	Partner University			Core courses (Module 5)	Core courses (Module 4)	Internship 6 months	Majors (Module 6)	Partner University	
	<b>Begin with partner (Model E)</b>	Partner University					Core courses (Module 5)	Core courses (Module 4)	Internship 6 months	Majors (Module 6)

## 5. Course Catalogue

YEAR 1			
Fall Semester		Spring Semester	
Module 1		Module 2	
ECT S	Course	Course	ECT S
6	Financial Accounting (Fr)	Business Law (Fr)	6
0	Business simulation (Fr)	Financial Analyzis (Fr)	6
6	Managerial Economics (Fr/En)	Marketing Management (Fr/En)	6
6	Management and Organizations (Fr/En)	Quantitative Methods II (Fr)	6
6	Quantitative Methods I (Fr)		
4	Foreign Language 1 (English/German/Spanish/Portugese/ Dutch / Chinese / Italian)	Foreign Language 1	4
2	Foreign Language 2	Foreign Language 2	2
<b>30</b>			<b>30</b>

NB : (Fr/En) = language of instruction available is French for Fr and English for En (2017/18)

(Following academic years both English and French will be fully available)

YEAR 2			
Fall Semester		Spring Semester	
		Module 3	
ECT S	Course	Course	ECT S
18	Internship	Managerial Accounting (Fr/En)	6
		International Economics (Fr/En)	6
		Corporate Finance	6
6	Personal Development	Intercultural Management (Fr/En)	6
		Consumer Behavior & Market studies (Fr/En)	6
		Foreign Language 1	4
		Foreign Language 2	2
<b>24</b>			<b>36</b>

NB : (Fr/En) = language of instruction available is French for Fr and English for En (2018/19)

(Following academic years both English and French will be fully available)



**TRACK 2: 2 YEARS ABROAD AND 2 YEARS IN FRANCE**

<b>Module 4</b>	
<b>CORE COURSES</b>	<b>Credits</b>
Business Ethics (FR/EN)	6
Strategic Management (FR/EN)	6
Human Resource Management (EN)	6
<b>ELECTIVE COURSES (2 out 4)</b>	
Management Accounting and Control (FR/EN)	6
Strategic Marketing (FR/EN)	6
Corporate Finance (FR/EN)	6
Globalization and Innovation (FR/EN)	6
French as a Foreign Language	(2)
<b>SUBTOTAL</b>	<b>30</b>

Language of instruction : French (FR) , English (EN)

<b>Module 5</b>	
<b>Core Courses</b>	<b>Credits</b>
Operations Management (Fr/En)	6
Data Analysis & Business Intelligence (Fr/En)	6
The digital organisation (Fr/En)	6
Organization Development & leadership (Fr/En)	6
<b>Elective Courses (1 out 4)</b>	
Entrepreneurship (Fr/En)	6
Negotiation (Fr/En)	6
Sustainable Business (Fr/En)	6
Innovation Management (Fr/En)	6
French as a Foreign Language	(2)
<b>SUBTOTAL</b>	<b>30</b>

NB : Language of instruction French or English

<b>Module 6)</b>	
<b>Courses (Final Project + 2 concentrations)</b>	<b>Credits</b>
Final Project <sup>(1)</sup> (Fr)	6
Digital Marketing <sup>(2)</sup> (Fr)	12
Audit <sup>(2)</sup> (Fr)	12
SCM <sup>(2)</sup> (Fr)	12
Entrepreneurship <sup>(2)</sup> (Fr)	12
Finance <sup>(2)</sup> (Fr)	12
International Business Development <sup>(2)</sup> (Fr)	12
<b>SUBTOTAL</b>	<b>30</b>

<sup>(1)</sup> : Compulsory <sup>(2)</sup> : Concentration

<b>Internship Semester 6 or Semester 8</b>	
	<b>Credits</b>
Internship	24
Personal Development	6
<b>SUBTOTAL</b>	<b>30</b>

## APPENDIX 4 - IPBS AGREED UPON MODULE STRUCTURE

# IPBS Agreed Module Structure

Version 2.1, agreed upon 8 March 2017

This is based on the first revision of the original Agreed Module Structure agreed upon March 14, 2006 which can be found in Appendix A. that first revision was unanimously approved by the IPBS Undergraduate Directors 17 March 2017 at the IPBS Meeting held at Northeastern University's D'Amore-McKim School of Business in Boston, MA and will be effective starting with the academic year 2018/2019. The only change this revision introduces is changing the Module MIS/information management from a core module to a core elective. This change will be also be effective starting with the academic year 2018/2019.

## Purpose

This document serves as the main tool to coordinate curricula throughout the IPBS partner schools by fixing core elements that should be included in every partner school's curriculum and whether students should learn them in the first or in the second half of the programme, respectively, thereby facilitating consistency across bilateral agreements. Normally, for most items in the list of core content there will be a one-to-one correspondence to a set of one or more modules in the curriculum of any given partner school, but there can also be modules covering parts of more than one item from the list of core content. Every partner school should provide a document showing how their curriculum reflects the agreed module structure.

It is recommendable to also make use of the agreed module structure when a partner school sets up double degree links to universities outside the IPBS. This way, no inconsistencies will arise and it would also be much easier to eventually include that university into the IPBS.

There are three main goals behind the agreed module structure.

1. At the very least it should ensure, that there are no credits duplicated between the two study blocks at the two institutions because this would impede the transfer of credits.
2. It should make sure that all students have the necessary prerequisites to successfully participate in the second half of the programme after having made the transition from one partner school to the other. This means that they need to have the necessary academic foundations as well as the language capabilities and intercultural competence to live, study and work in the country in which they spend the second half of the programme.
3. It should make sure that repetition of content in the second half of the programme is kept to a minimum and where it occurs is intentional.

## Terminology

To start with here is a short list of terminology used in this document to avoid misunderstandings.

- **ECTS credits**

The concept of ECTS credits was introduced in the Bologna process to facilitate transferring credits between European universities. Basically, these credits are based on the workload of students. One ECTS credit corresponds to 25 to 30 hours of work for a student, while there is no fixed correspondence between ECTS credits and contact hours. The main reference for more information is (European Commission, 2015, S. 10).

US-universities' credits are usually worth two ECTS credits. Appendix B lists credits used at the IPBS member institutions and how they are converted.

- **Core content**

This is content that should be taught in mandatory modules, i.e. it should be assured that all students in the programme learn this content. Originally, the idea was that the modules in the programme directly correspond to the items in the list of core content (hence the document title "Agreed Module Structure"). So for example, there would be one or more module(s) covering quantitative methods and the sum of ECTS credits students earn in these would be at least 10.

Experience has shown, however, that this can be impractical. Therefore, partner schools are free to distribute core content over different modules. For example, there could be a finance module containing some financial mathematics and a marketing module containing some statistical methods so that this way some of the required credits for quantitative methods are covered. As long as all such modules are mandatory, this is unproblematic.

In principle, elective modules could also be used to cover some credits for core content as long as all students must take at least one such elective. For example, some statistical methods could be part of a marketing elective as well as an economics elective if every student has to take at least one of the two (actually it should not be possible to take both either, since otherwise students would be taught the same content in two different modules).

- **Regional basket**

The regional basket is important for partner universities to be able to include idiosyncratic elements into their curriculum be it to fulfill demands from accreditors, the university or government regulations, or be it to build a specific profile. Credits from the regional basket can be given for mandatory modules as well as electives. Also the number of credits for items from the list of core content could be increased using credits from the regional basket.

- **Core Electives**

This is a new category in the revised version of the agreed module structure. The idea is to be able to define certain topics that are offered to all students in the IPBS programme at all participating partner universities but not necessarily in mandatory modules. This way we can ensure that the IPBS is able to include current topics without overloading the list of core content. Eventually, core electives may become core content if and when a topic makes it into the canon of international management education. To keep the agreed module structure operational, at the same time there should also be a reassessment of the current core content with the goal to leave enough credits for the regional basket. To enable students to select core electives, the regional basket cannot contain too many mandatory elements different from the core electives. Either these can be made mandatory in the curriculum of a partner school or there have to be alternative electives with corresponding ECTS credits for those students who do not chose to select the core electives. In the column for the ECTS credits for the regional basket, the maximal number of mandatory credits in the regional basket for modules other than the core electives is given in a separate line.

## General Rules

1. All IPBS partner schools provide a document explaining how their curriculum corresponds to the agreed module structure (to make this easier, the agreed module structure contains abbreviations for all items). If a partner school's curriculum deviates from the agreed module structure, this must be explicitly dealt

with in the bilateral agreements, which in any case should include a reference to the agreed module structure.

2. The regional basket in the first half of the study programme should not contain any content which is part of the core content of the second half of the study programme.
3. Analogously, the regional basket in the second half of the study programme should not contain any content which is part of the core content of the first half of the study programme. This does not mean that the regional basket cannot contain modules from fields included in the core content of the first study half as long as such modules are clearly building on the core content of the first half. It could be that a module provides applications of topics covered in the first half, possibly with special emphasis on local idiosyncrasies, or that the module contains more advanced topics from the same area.
4. In case a partner school deviates from rules 2 or 3, this needs to be explained to partner schools and students. A deviation from rules 2 or 3 is particularly grave and hence should be avoided if it means that credits cannot be transferred. Should local regulations create conflicts with the agreed module structure, the partner school affected immediately informs the partners they cooperate with bilaterally. Also it informs the UG Chair and the IPBS general secretary so that a revision of the agreed module structure can be put on the agenda of the next IPBS meeting to solve the conflict if possible.

## Internships

Internships in both study halves are a core element of the IPBS dual degree programmes. They providing an important part of the deep immersion into two countries we offer by making sure, graduates have work experience in two countries (cultures).

To ensure this, the following general rules apply.

1. Internships should be credit bearing. Where this is not possible, the curriculum should ensure that students have the possibility to do an internship of at least the duration indicated by the number of credits associated to the internship in the agreed module structure. For example the internship in the second half of the programme which has 20 ECTS credits needs to be at least 600 working hours or 15 weeks for a full time internship based on 40 hours per week.
2. The internship should be in the country or, more generally, the cultural sphere of the partner school the student is currently studying at. Exceptions should be restricted to those students who prove to already have the required work experience.
3. Internships should never be in the country or cultural sphere of the partner institution at which the student has spent or will spend the other half of the programme.
4. Exceptions from rule 3 can only be granted if it is ensured that at graduation the student has gathered work experience in the country or cultural sphere of both partner schools he or she receives a diploma from. For example, if it is impossible to find an internship in the UK for a student in the English-German double degree track who spends the first half of her studies at LUMS, she could do her first internship in Germany if she does the second internship (which is in the study half she spends at ESB) in the UK.

To make sure students understand and accept the internship regulations, each partner school provides a document describing its rules for the internship. Thus, the home institution is able to explain said rules to its students.

## IPBS Agreed Module Structure

Version 2.1 in effect starting with the academic year 2018/2019

<b>First half (Years 1 and 2)</b>	<b>ECTS credits</b>	<b>Second half (Years 3 and 4)</b>	<b>ECTS credits</b>
<b>Core content 1 (CC1)</b>		<b>Core content 2 (CC2)</b>	
Internship (INT1)	5	Internship (INT2)	20
Quantitative Methods (QM)	10	Strategy (STR)	10
Economics (ECO)	10	International Economics / International Business (IE)	10
Introduction to Business (BUS)	5	Final Project (PRO)	10
Organisational Behavior (OB)	5	Ethics (ETH)	5
Marketing (MAR)	10	HR (HR)	5
Finance (FIN)	10	Production & Operations Management (POM)	5
Accounting (ACC)	10		
Communications/languages (CL)	10		
International Studies/business (IST)	5		
<b>Total core courses</b>	<b>85</b>	<b>Total core courses</b>	<b>65</b>
		<b>Core electives (CE)</b>	
		Entrepreneurship (ENT)	5
		Business Analytics (BAL)	5
		MIS/ Information Management (MIS)	5
			<b>15</b>
<b>Regional basket 1 (RB1)</b>	<b>35</b>	<b>Regional basket 2 (RB2)</b>	<b>50</b>
		Regional basket besides core electives	35
<b>Total first half</b>	<b>120</b>	<b>Total second half</b>	<b>120</b>

## **APPENDIX 5 - DUAL DEGREE PROGRAM TERMS AND CONDITIONS**

The Program will enable students to pursue a course of study to qualify for the Bachelor of Science in Business Administration degree from NC STATE and a Bachelor in International Business Management from NEOMA Business School.

### **SECTION I: PROGRAM OVERVIEW**

1. Each Institution will nominate their students who wish to enroll in the Program on the basis of the student's academic standing and potential for success in the Program. However, the host Institution reserves the right to review each applicant's record prior to acceptance into the Program. The host Institution reserves the right not to accept any particular student nominated.
2. This agreement for the dual degree program is inclusive of eight semesters that encompasses studying and internships experiences at both Institutions.
3. Dual degree students will pay tuition and obligatory fees to their home Institution for the duration of eight semesters of their enrollment in the dual degree program.
4. The entire cost of room and board at each institution will be borne by the student.
5. Students are entitled to up to four semesters at the partner institution as part of the exchange opportunity. If a student in the Program does not complete the degree requirements at either Institution at the end of the eight semesters included in this Agreement, students can continue in the program at the tuition and obligatory fees cost of the host institution. This provision would only occur if a student must repeat a class/classes and cannot do so in the two years included in this agreement. Students could elect to return to the home institution, but would not be eligible for the second degree of the partner university (host institution).
6. NEOMA students who elect to take extra courses at NC STATE over the summer term(s) will pay out- of-state tuition to NC STATE.
7. NC STATE students who elect to take extra summer program courses at NEOMA will pay tuition due for the mentioned programs to NEOMA.
8. The intention of the exchange is to enable a target of 5 students per year from each Institution to study and work abroad each year. Although a one-for-one exchange is desirable it will not be considered a breach of this Agreement if, the institutions and working on other means of student engagement that is mutually agreeable to both institutions.
9. Dual Degree students will be permitted to enroll at the host Institution in any course for which they are qualified, subject to admissions requirements, and timetable and capacity constraints of the host Institution. Students will be required to participate in all courses for which they are enrolled as defined by the host institution and must complete all coursework that is required for both degrees.

10. Students in this program are considered “exchange” students. Over the course of the agreement, it is hoped that both schools will be in close balance of the number of students exchanged. Students from either institution who are not in the dual degree program but who wish to study for a semester or year will be included in the balance count for exchanges. For NC State exchange students, they will have the option to study on the Reims or Rouen campuses. Additionally support for summer programs hosted by partner institutions is considered in the balancing of numbers.
11. Dual Degree students will be required to provide evidence of language competence in the language of the host institution as stipulated by the host institution.
12. NEOMA students will be required to take the TOEFL IBT exam and have their test results sent directly to NC STATE. NC STATE students will be required to demonstrate French language fluency prior to enrolling in degree program courses at NEOMA by completing upper level french classes at NC State..
13. The Institutions will require dual degree students to maintain in full effect, health insurance with coverage acceptable to the host Institution and applicable to government requirements. NC STATE will make its student health insurance available for an additional fee to the students from NEOMA. At the discretion of each institution, students may be required to purchase additional health insurance in the host country.
14. Each student is responsible for all other expenses associated with the dual degree program, including but not limited to: personal expenses; transportation to and from the host institution; textbooks and other course materials, and any required educational taxes.
15. Dual degree students will enjoy the privileges of and be subject to all regulations of the host Institution. Dual degree students can be terminated from the Program and host institution if a student's violation(s) of the host Institution’s regulations merit suspension or dismissal.
16. Receipt of the degree offered by either Institution is contingent upon the student completing all degree requirements of said Institution, including successful course completion, GPA requirements, thesis, internships, etc.
17. Each institution shall remain responsible for the acts and omissions of their respective officers, agents, and employees.
18. It is understood and agreed that courses and other related activities offered through the host Institution are the primary and ultimate responsibility of the host institution, which will make all arrangements necessary for the satisfactory functioning of programs.
19. Each Institution will at its own expense, compensate instructors whom it employs for its courses and assumes no responsibility for the compensation of the home Institution’s instructors.

20. Each institution will provide partner institution with a summary of faculty credentials (table 15.1 from AACSB Report) and a copy of the CV's for faculty teaching in the program.
21. It is agreed that the host Institution has the primary and ultimate responsibility for obtaining from the instructors and transmitting to the home Institution in a timely fashion assessments for all participating students. The host Institution will assume full liability for grievances or other actions arising from such assessments. Assessments will be transmitted to the home Institution as soon as possible after the examination period.

## **SECTION II: GENERAL PROVISIONS**

1. Each university will appoint a Dual Degree Program Coordinator to work with the dual degree students to ensure that the program of study is consistent with the dual degree curriculum requirements. The minimum and maximum course load in any given semester will be governed by the regulations of the host Institution.
2. The Institutions agree that every person connected with the Program in relation to the mutual undertakings with each other shall abide by, conform to, and comply with all of the laws of the United States, and France or other relevant jurisdictions as well as the policies, rules, regulations, and disciplinary rules promulgated by each Institution. Each Institution shall provide Program participants with a copy of its statutes, regulations, and disciplinary rules promulgated thereby.
3. In the event that any casualty or unforeseen occurrence shall render the fulfillment of the Agreement impossible, neither party shall in any case be held responsible to the other party for any damage caused thereby.
4. This Agreement represents the complete understanding of the parties with respect to the subject matter hereto and may be amended or modified only by a writing signed by the parties.
5. The Agreement will be effective upon execution for five (5) years, unless terminated earlier as provided for herein. Thereafter it may be renewed for successive periods of five (5) years unless or until either institution terminates this Agreement. This Agreement may be amended at any time by mutual consent or may be terminated by either institution for any cause or no cause by six months written advance notice to the President of the rescinding institution. Any termination or alterations will be made without prejudice to any participants whose agreed Program extends beyond the termination dates.
6. NC State is accredited by the Southern Association of Colleges and Schools' Commission on Colleges to award Bachelor's, Master's and PhD degrees. NEOMA is not accredited by the Commission on Colleges and the accreditation of NC State does not extend to or include NEOMA or its students. Although NC State accepts certain course work in transfer toward a credential from NEOMA in force of this Agreement, or collaborates in other ways for generation of course credits or program credentials, other colleges and universities may or may not accept this work in transfer, even if it appears on a transcript from NC State. Each college or university



will take the decision regarding the work of transfer in complete autonomy. Both institutions will make their personnel, records, and facilities available to accreditors and other official reviewers.

7. Neither Member nor Partner institutions may use the SACSCOC logo. Its use is reserved exclusively for the Southern Association of Colleges and Schools Commission on Colleges.
8. Disclosure - The parties agree that personally identifiable information and education records of the students shall be maintained in a confidential manner and shall not be released except to school officials with a legitimate educational interest or as allowable by applicable Federal and State law.
9. Equal Opportunity - Both universities subscribe to a policy of equal opportunity and will not discriminate against any participating student on the basis of race, gender, age, marital status, ethnicity, religion, national origin, sexual orientation, handicap or any other basis prohibited by the laws of that university's home country.

## APPENDIX 6 - FACULTY CV'S AND SUMMARY TABLE

The following table outlines the distribution of faculty among rank as classified by AACSB, the accrediting body of leading business schools in the world. The abbreviations outlined in the table are standard for AACSB and are as follows

SA= Scholarly Academic (tenure track, PhD doing research)

PA = Practice Academic (PhD, not doing as much research, engaged with industry)

SP = Scholarly Practitioner (Not academically trained, does scholarly research - rare)

IP = instructional practitioner. (Usually a lecturer whose main job is teaching)

	NEOMA Faculty Qualifications per AACSB Categories					
	SA	PA	SP	SA+PA+SP	IP	OTHER
CESEM Program Faculty	35%	15%	10%	60%	33%	7%

Poole College of Management recently went through a reaccreditation review by AACSB and is expecting a full renewal for another five year period. For a point of reference, Poole's faculty distribution is as follows.

	Poole Faculty Qualifications per AACSB Categories					
	SA	PA	SP	SA+PA+SP	IP	OTHER
Poole College Faculty (graduate and undergraduate)	61.3%	5.1%	1.5%	67.9%	28.4%	3.7%

The faculty data outlined above show a relative comparison of both school's faculty. It is important to note that NEOMA is only reporting faculty who teach in the undergraduate CESEM program (the dual degree program) whereas the Poole College of Management data includes graduate and undergraduate faculty. Given graduate studies represent 20-25% of Poole's total enrollment and that faculty teaching graduate students are more likely to have a terminal degree and are tenure track (SA classification) the data comparison is not presenting an equal comparison. Overall it shows that the NEOMA faculty qualifications are similar to Poole's and meets the criteria set by AACSB.

The following table lists all the faculty at NEOMA Business School who teach in the CESEM Program (dual degree program). Their full CV's are available online at

<https://drive.google.com/drive/folders/1sW55FRGd0YvQnkNA25pcdqRunRLYOy7c?usp=sharing>.

## NEOMA Professors in CESEM Program

Last	First	Academic Rank	Highest Degree	Degree
<a href="#">Aka</a>	Annick	Teacher	Master	Mathematics
<a href="#">Alfre</a>	Matthieu	Adjunct	Master	Strategy, Corporate Finance, Financial Markets, Management
<a href="#">Alijani</a>	Sharam	Professor	PhD	Management, Economics
<a href="#">Allal-Cherif</a>	Oihab	Professor	PhD and HDR	Management, Information Systems
<a href="#">Andre</a>	Caroline	Associate Professor	PhD	Law
<a href="#">Attari</a>	Amin	Assistant Professor	PhD	Management, Marketing
<a href="#">Belin</a>	Daïel	Adjunct	Master	Mathematics
<a href="#">Ben Yahia</a>	Ali	Adjunct	PhD	Management
<a href="#">Bousslama</a>	Ghassen	Associate Professor	PhD	Management, Finance
<a href="#">Boussaguet</a>	Sonia	Visiting Professor	PhD	Management, Entrepreneurship
<a href="#">Brunner Gloor</a>	Dorothea	Adjunct	Master	Human Resources
<a href="#">Chapalain</a>	Gerard	Adjunct	Masters (2)	Banking and Finance; Macro Economics
<a href="#">Chekroun</a>	Joanna	Adjunct	Master	Management, Marketing
<a href="#">Chemin-Bouzir</a>	Carine	Associate Professor	PhD	Management
<a href="#">Cho</a>	Hye-Jin	Adjunct	PhD	Management, Economics
<a href="#">Choi</a>	Yong Bum	Assistant Professor	PhD	Management, Marketing
<a href="#">Clement</a>	Sawsen	Affiliate Faculty	Masters (2)	Research in International Economy; Economics, Social and Management Sciences
<a href="#">Collard</a>	Francoise	Department Head	Masters (2)	Business; (DEA) Business
<a href="#">Costa</a>	Serge	Clinical Professor	Master	Information Management
<a href="#">Dauphine</a>	Emmanuel	Lecturer	Masters (2)	Entrepreneurship; Engineering
<a href="#">Daussy</a>	Charles	Department Head	PhD	Economics, Social and Management Sciences, Management Control
<a href="#">De La Vallee Poussin</a>	Jean	Adjunct	MBA	Marketing
<a href="#">Demazure</a>	Michael	Adjunct	MBA	
<a href="#">Derancourt</a>	Elisabeth	Adjunct	Master	Management
<a href="#">Deroy</a>	Xavier	Professor	PhD and HDR	Management Science; Business Administration
<a href="#">Dioudonnat</a>	Nathalie	Adjunct	Masters (2)	Ethnology; Social Anthropology and Cultural and Traditions Change

<a href="#">Eirich</a>	Marena	Adjunct	BSc and Diploma?	International Business, Management; Sustainable Business, Management, Sustainable Development
<a href="#">El-Karouni</a>	Ilyess	Adjunct	PhD	Economics
<a href="#">Elkhabli</a>	Amelle		PhD	Management Sciences
<a href="#">Ernest</a>	Loic		PhD	European Law
<a href="#">Falantin</a>	Annie	Assistant Professor	PhD	Management, Information Systems
<a href="#">Friedman</a>	Olivier	Adjunct	MBA	
<a href="#">Giacomin</a>	Olivier	Associate Professor	PhD	Economic Sciences and Management
<a href="#">Gignon</a> <a href="#">Marconnet</a>	Isabelle	Associate Professor	PhD	Management
<a href="#">Girard</a>	Aude	Affiliate Faculty	Master	International Marketing
<a href="#">Girault</a>	Virginie	Adjunct	Engineering Degree	
<a href="#">Glenza-Manjour</a>	Anissa	Adjunct	PhD	Management, Marketing
<a href="#">Gomez</a>	Pierrick	Head of the Master in Corporate Communications; Associate Professor	PhD	Management, Marketing
<a href="#">Grenier</a>	Emmanuel	Assistant Professor	Master	Signal Processing - Statistics
<a href="#">Guceski</a>	Pascale		Masters (2)	Management; Economics, Social and Management Sciences, Marketing
<a href="#">Guidici</a>	Sylvie		Masters (2)	Management; Management Sciences
<a href="#">Hamzi</a>	Lotfi	Department Head	PhD	International Affairs
<a href="#">Han</a>	Huai-Yuan	Professor	PhD	Management
<a href="#">Haouet</a>	Imene	Department Head	PhD Candidate	Management Sciences, Management Control
<a href="#">Hubiche</a>	Maxime	Adjunct		
<a href="#">Jathol</a>	Bilal		PhD	Management
<a href="#">Jean-Baptiste</a>	Fabienne	Adjunct	Master	Law
<a href="#">Jensen</a>	Karina	Practice Director	PhD	International Management
<a href="#">Jowyk</a>	Claude	Adjunct	Master	Accounting and Finance
<a href="#">Kanyinda-Kasanda</a>	Alois	Professor	PhD	Management, Finance
<a href="#">Kim</a>	Tom	Assistant Professor	PhD	Marketing
<a href="#">Kim</a>	Youngju	Assistant Professor	PhD	Economics, Social and Management Sciences
<a href="#">Klaine</a>	Marie-Angele	Adjunct	Master	Advising and Change Management
<a href="#">Koumakhov</a>	Rouslan	Professor	PhD	Economics

<a href="#">Leclere</a>	Remi	Adjunct	Master	Economics and Management
<a href="#">Leflond</a>	Laurent	Adjunct	Master	
<a href="#">Lemoine</a>	Nathalie	Adjunct	Degrees (2)	Communication, Negotiation and Management; Company Creation and Take-over
<a href="#">Lescoat</a>	Pierre	Assistant Professor	PhD	Management, Management Control
<a href="#">Li</a>	Jessica	Senior Lecturer	MBA	Business Administration
<a href="#">Lopez</a>	Jean-Claude	Adjunct	PhD	Management
<a href="#">Mangalgie</a>	Diana	Associate Professor	PhD; Masters (2)	Artificial Intelligence; Management; Sociology
<a href="#">Mathelin</a>	Deirdre	Adjunct	PhD	Management Sciences, Entrepreneurship
<a href="#">Megdoud</a>	Fatima	Adjunct	Master	Organizations' Computing
<a href="#">Miroir-Lair</a>	Isabelle	Associate Professor	PhD	Management, Management Control
<a href="#">Mohammadi</a>	Reza	Adjunct	PhD Candidate	Management, Digital Marketing
<a href="#">Motte</a>	Michael	Adjunct	Bachelor	Business Administration
<a href="#">Mpegna</a>	Belmond Nicaise	Adjunct	PhD	Management, Human Resources
<a href="#">Nassibou</a>	Jerome	Lecturer	Masters (2)	Engineering, Sustainable Development; Entrepreneurs
<a href="#">Niang</a>	Cheikh	Teaching Assistant	PhD Candidate	
<a href="#">Nlemvo Ndonzuau</a>	Frederic	Professor	PhD	Management
<a href="#">Noel</a>	Antoine	Assistant Professor	PhD	Administration, Finance
<a href="#">Ony</a>	Jerome	Affiliate Faculty	Degree	Computing
<a href="#">Qui</a>	Ju	Adjunct	PhD	Economics
<a href="#">Ramirez Gonzalez</a>	Heidy Andrea	Adjunct	PhD Candidate	Management
<a href="#">Rouquet</a>	Aurelien	Professor	PhD	Economics, Social and Management Sciences, Supply-Chain, Logistics, Operations and Purchasing
<a href="#">Roussel</a>	Jean-Yves	Adjunct	Master	Mathematics
<a href="#">Sarfat-Leduc</a>	Helene	Lecturer	Masters (2)	Arty History; Design, Innovation and Luxury
<a href="#">Sarter</a>	Stephen	Adjunct	PhD	Management, Management and Leadership
<a href="#">Schyns</a>	Birgit	Full Professor	PhD	Psychology
<a href="#">Sirault</a>	Philippe	Affiliate Faculty	Master	Economics, Social and Management Sciences, Strategy and HR

<a href="#">Song</a>	Yiping	Associate Professor	PhD	Business Administration
<a href="#">Souchaud</a>	Antoine	Assistant Professor	PhD	Management
<a href="#">Subtil</a>	Benedicte	Adjunct	Masters (2)	Business; Organizations and Institutions
<a href="#">Tabary</a>	Sylvie	Adjunct	Master	Law
<a href="#">Tao</a>	Ran	Assistant Professor	PhD	Economics
<a href="#">Tcherniaeff</a>	Anissia	Adjunct	Master	Business Administration, Management and Operations
<a href="#">Thenot-Lecomte</a>	Maryline	Associate Professor; Research Chair	PhD	Management
<a href="#">Tricard</a>	Benoit	Assistant Professor	PhD	Management, Management Control
<a href="#">Vasiljevic</a>	Dimitri	Assistant Professor	PhD	Social Psychology
<a href="#">Vassiliou</a>	Marie-Michele	Professor	PhD	Sciences, Instrumental Physics
<a href="#">Vila</a>	Adrien	Adjunct	PhD	Economics
<a href="#">Villain-Zunic</a>	Aurore	Adjunct	Masters (3)	Accounting; Finance Management Control; Accounting

## APPENDIX 7 - NEOMA RANKING AND ACCREDITATION



French rankings	2019-2020	2018-2019
<b>l'Etudiant</b> - CESEM - "studying abroad" mini-awards list - "international" mini-awards list - Master in Management	9 1 (ex-aequo) 2 (ex-aequo) 7	4 (ex-aequo)   7
<b>LE FIGARO</b> Master in Management	8	10
<b>Challenge<sup>s</sup></b> - CESEM - Master in Management	5 6	-* -*
<b>Le Point</b> - CESEM - Master in Management	In February	5 8
<b>Le Parisien</b> Master in Management	8	10

\*Published every 2 years

International rankings	2019-2020	2018-2019
<b>FT</b> FINANCIAL TIMES - Master of Finance - Master in Management - European Business School	- * 43 (8 in France) 50 (10 in France)	25 (8 in France) 41 (9 in France) 45 (8 in France)
<b>The Economist</b> Master in Management	- **	19 (7 in France)
<b>QS</b> WORLD UNIVERSITY RANKINGS Master in Management Master in Finance	62 (10 in France) 71 (10 in France)	70 (12 in France) 101+(9 ex-aequo in France)

\* Canceled for 2019

\*\* Published every 2 years





## **APPENDIX 8 - POOLE COLLEGE'S BSBA ASSESSMENT PLAN**

PCOM Assurance of Learning (Fall 2014 – Spring 2019)  
Learning Objectives and Processes

Responsibility for the Assurance of Learning (AoL) Process

The PCOM Undergraduate Assessment and Curriculum Committee (UCC) serves as the assurance of learning committee for the PCOM undergraduate program. The committee is represented by the chairs of the accounting, economics and BSBA curriculum committees. A similar committee serves that role in the Department of Accounting. Andy Nowel served as the Director of Curriculum, Scheduling and Assessment for PCOM through Spring 2016. Roby Sawyers (accounting faculty) served as the Director of Accreditation for PCOM from Spring 2016 through Spring 2019 as and in that role was charged with overseeing the AoL process.

These committees and faculty/staff are responsible for the overall management of the AoL process, determining the timeline for assessing outcomes, compiling and reviewing results and communicating with faculty and others regarding the process.

Faculty groups within each department with primary teaching responsibilities in specific technical areas are heavily involved in the assurance of learning process and are responsible for developing specific learning objectives and assessment measures for discipline-specific outcomes, summarizing and analyzing assessment results and developing and implementing action plans to enhance student learning and performance.

### **PCOM Learning Outcomes and Objectives for the Bachelors in Business Administration**

- 1. Proficiency in Critical Thinking: PCOM students will be able to organize, analyze, and apply information to make business decisions.**
- 2. Proficiency in Written Communication: PCOM students will be able to organize and express ideas using appropriate language and grammar in a business content.**
- 3. Proficiency in Ethics Awareness: PCOM students will be able to recognize social responsibility issues, ethical dilemmas, and alternative solutions for business organizations.**
- 4. Proficiency in Global Awareness: PCOM students will be able to recognize specific challenges that arise due to the international activities of a business.**
- 5. Proficiency in Diversity Awareness: PCOM students will be able to recognize legal issues related to diversity and how differences among individuals are valuable to an organization.**
- 6. Proficiency in Business Discipline-Specific Skills: PCOM students will be able to demonstrate proficiency in core business skills including: managerial accounting, financial accounting, finance, marketing, human resource management, operations/supply chain management and information systems.**

**6-1 PCOM graduates will demonstrate competency in managerial accounting**

**6-2 PCOM graduates will demonstrate competency in financial accounting**

**6-3 PCOM graduates will demonstrate competency in finance**

**6-4 PCOM graduates will demonstrate competency in information systems**

**6-5 PCOM graduates will demonstrate competency in marketing**

**6-6 PCOM graduates will demonstrate competency in operations/supply chain management**

**6-7 PCOM graduates will demonstrate competency in human resource management**

### **Assessment of the PCOM Learning Outcomes**

Through the 2016/17 academic year, Learning Outcomes 1-4 were assessed using a written case analysis in the required college-wide senior capstone course (MIE 480). A random sample of MIE 480 student cases (including a corresponding sample of accounting students) was scored by a team of faculty using a separate rubric for each respective learning outcome.

Based on input from the PCOM UCC and the MIE 480 faculty, the UCC revised the process for assessing Learning Outcomes 1-4 during the 2017/18 academic year and beginning in the 2018/2019 academic year, assessment of ethics, written communication and critical thinking skills moved to specific classes more directly tied to the skills assessed – ethics in MIE 305 (Business Law), written communications in ENG 332 (Communication for Business and Management) and critical thinking in MIE 310 (Introduction to Entrepreneurship). As MIE 310 is not taken by accounting students, assessment of critical thinking (Learning Outcome 1) moved to specific accounting courses (ACC 310, ACC 330, ACC 340 and ACC 450) participating in the NC State University “Think” Initiative. Accounting also experimented with using the standardized CAT (Critical Thinking Assessment Test) – see <https://www.tntech.edu/cat/> as part of NC State’s general education competency assessment. Assessment of global awareness remained in MIE 480.

During the previous 5-year AoL cycle, Learning Outcome 5 (diversity awareness) was measured in two classes: M 100, “Professionalism, Diversity, and Academic Success in Management,” using a required diversity reflection assignment and MIE 330, “Human Resource Management” using embedded test questions. Due to changes in the content of M100, during the 2014-15 academic year, assessment of diversity awareness was moved out of M100 and is currently assessed in MIE 330.

Learning Outcome 6 (BSBA) – Proficiency in business discipline-specific skills is measured in each of the respective core accounting and business courses:

6-1 Competency in managerial accounting – ACC 200/220

6-2 Competency in financial accounting – ACC 210

6-3 Competency in finance – BUS 320

6-4 Competency in information systems – BUS 340

6-5 Competency in marketing – BUS 360

6-6 Competency in operations/supply chain management – BUS 370

6-7 Competency in human resource management – MIE 330



# Poole College of Management

## Global Programs

### Assessment Plan

The Poole College of Management's Global Programs Office provide undergraduate students with a wide variety of programs to broaden their management education within a global context. In doing so, students develop an understanding, appreciation, and knowledge of global issues and culture and are more prepared to start a career in the global environment that exists today.

### Guiding Framework

The Global Programs Office assessment plan and learning outcomes were developed within the framework of Darla K. Deardorff's Intercultural Competence Model (2006)<sup>1</sup>. The model is comprised of five key areas – *attitudes* (i.e. respect, openness), *knowledge and comprehension* (i.e. cultural self-awareness, language), *skills* (i.e. evaluation), *internal outcomes* (i.e. adaptability, ethno-relative view), and *external outcomes* (i.e. appropriate communication). The lifelong process of developing intercultural competence begins at the individual level with attitudes and knowledge and advances to the interaction or relational level as demonstrated in the internal and external outcomes.

### Learning Outcomes

#### Attitudes

**Objective** | Students will possess a level of curiosity and discovery that leads to an openness and respect of different cultures.

**Outcome 1** | Students can illustrate how they engage with individuals from a different culture/country.

**Outcome 2** | Once students return to NC State, students engage in internationally focused experiences (International Business Club, Exchange Student Mentors, GPC, OIS Ambassador, Language classes)

#### Knowledge and Comprehension

**Objective** | Students will acquire culture-specific knowledge in the context of an ethno-relative world-view.

**Outcome 1** | Students will be able to describe cultural information and provide examples of specific aspects of the culture (traditions, history, etc.)

**Outcome 2** | Students will compare and contrast those examples in a multi-worldview perspective

**Outcome 3** | Students will demonstrate appropriate socio-linguistic language proficiency.

#### Skills

**Objective** | Students will develop skills as outlined in the internal and external outcomes  
Internal Outcomes

**Outcome 1** | Students will exercise cultural self-awareness and the ability to engage in a diverse global environment through flexibility, adaptability, empathy, and an ethno-relative perspective.

**Outcome 2** | Students will be able to articulate their development of skills in self-reliance, confidence, and independence.

External Outcomes

**Outcome 1** | Students will demonstrate appropriate and effective communication and behaviors in diverse intercultural environments.

<b>Learning Outcomes</b>					
	Attitudes	Knowledge and Comprehension	Skills	Internal Outcomes	External Outcomes
	Respect, Openness, Curiosity/Discovery	Cultural Self Awareness, Culture Specific Knowledge, Understanding Other World Views, Socio-Linguistic Awareness	Observing, Listening, Evaluating, Analyzing, interpreting, and relating	Flexibility, Adaptability, Ethno-relative Perspective, Empathy	Behavior and Communication
Dual Degree Programs					
International Dual Degree (IBDD)	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓
Alexander Hamilton Program	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓
Semester/Year-Long Programs	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Summer Programs	✓✓	✓✓	✓✓	✓✓	✓✓
On-Campus Engagement	✓	✓	✓	✓	✓

**APPENDIX 8 - IBDD BUDGET DOCUMENTATION**

<b>IBDD Costoverview - January 2020</b>		
<b>Staffing</b>		
Director Salary Allocation	\$17,025.00	Provides overall management of programs, advises students, manages institutional relationships. 15% allocation of time
Program Coordinator Salary Allocation	\$7,005.00	Coordinates recruitment of U.S based students. 15% allocation of time
<b>Operational Expenses</b>		
IPBS Dues	\$8,000.00	annual dues to IPBS
Recruitment of students	\$3,000.00	micro recruitment to attract students to NC State for IBDD Program
Orientation & Student Activities	\$3,000.00	various social programs to support student engagement
Travel to IPBS Meeting	\$5,000.00	Associate Dean and Director attend IPBS meetings twice a year
<b>Total Expenses</b>	<b>\$43,030.00</b>	
<b>NEOMA Allocation</b>	<b>\$8,606.00</b>	<b>20% (1/5) of total cost</b>

NC STATE UNIVERSITY

Lisa G. Bullard  
Campus Box 7905  
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919-515-7455

To: Dr. Lisa Zapata  
Interim Vice-Chancellor  
Division of Academic and Student Affairs

From: Dr. Lisa Bullard  
Dir. of Undergraduate Programs, Department of Chemical & Biomolecular Eng.

Date: March 11, 2020

Subject: Updates to 14CHEBS-14CHEBIO

**Justification:** The Department of Chemical & Biomolecular Engineering is updating its Biomolecular Concentration in order to better reflect the current state of the science, ensure that students receive a strong foundation in both reactor design and bioreactor design, and provide additional flexibility in choosing biotechnology lab courses.

**Proposed Revisions with Reasons:**

1. Students will take CHE 446 (Design and Analysis of Chemical Reactors) instead of CHE 447 (Bioreactor Engineering). CHE 446 is offered in the fall semester and will now be taken by *all* CBE students. CHE 447 will no longer be offered.
2. CHE 551 (Biochemical Engineering), a 3-credit course currently taken in the spring semester, will be replaced by two new 2-credit 8-week courses offered in the first and second halves of the spring semester:
  - a. BEC/CHE 448 (Bioreactor Design)
  - b. CHE 452 (Biomolecular Engineering)CHE 551 will no longer be offered, with the content having been absorbed into these two more focused courses.
3. Instead of having to choose BIT labs from "Group I" and "Group II" categories, students can choose *any* two BIT labs to fulfill the 4-credit BIT lab requirement. This allows students more flexibility to choose BIT labs based on interest/availability, as well as having access to new BIT labs which are added each semester. Since we are adding 2 credits of engineering electives, the previous ABET-related constraint of having to classify the BIT labs into ones having engineering content (or not) is no longer required.
4. Total credit hours will change from 127 to 128 with the replacement of CHE 551 (3 credits) with [BEC/CHE 448 + CHE 452] (4 credits).

Proposed effective date: 07/2020



## Routing for DASA or Graduate School Approval of Other Degree Program Actions

**Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(s) as indicated

☐ New Minor / Concentration  
Proposed Minor / Concentration Title \_\_\_\_\_  
☐ Change in Minor / Concentration Title  
Current Minor / Concentration Title: \_\_\_\_\_  
Proposed Minor / Concentration Title: \_\_\_\_\_  
☒ Change in Curricular/Program Requirements

Proposed Effective Date: 07/2020

Program Contact: Lisa Bullard

Proposed CIP Code (see <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>): 14.0702

**Routing of Action:** Indicate date when the following occurs

### **Completed Proposal**

3/12/20

\_\_\_\_\_ Department Head endorses\*  
\_\_\_\_\_ College Curriculum Committee (undergraduate or graduate) recommends\*  
\_\_\_\_\_ College Dean endorses\*

### **Proposal moves to Undergraduate or Graduate office for routing**

\_\_\_\_\_ Recommended by Vice Provost, DELTA, if applies\*  
\_\_\_\_\_ Associate Deans Council **or** Graduate Operations Council informed  
\_\_\_\_\_ University Courses & Curriculum Committee **or** Administrative Board of the Graduate School recommends  
\_\_\_\_\_ Dean (Graduate School or DASA) approves\*

\* Signature is required on the signature page for the action

North Carolina State University

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

### Completed Proposal

Endorsed By:

sed By: Peter Fedkin

3/12/20

Head, Department/Program

Date \_\_\_\_\_

**Recommended By:**

3/26/2020

David W. Parish

Chair, College Curriculum Committee

Date \_\_\_\_\_

Endorsed By:

Jerome P. Lavell

4/16/2020

College Dean

Date \_\_\_\_\_

*Proposal moves to Undergraduate or Graduate office for routing*

**Recommended By:**

Vice Provost, DELTA (if DE degree/certificate)

Date \_\_\_\_\_

**Recommended By:**

Chair, University Courses & Curricula Committee  
or Administrative Board of the Graduate School

Date \_\_\_\_\_

Approved By:

Dean, DASA or the Graduate School



# Chemical Engineering

## GEP FORMAT A

(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current:

Proposed: X

Proposed Effective Semester: 07/2020

DEGREE TITLE: **B. S. in Chemical Engineering**

CONCENTRATION TITLE: **Biomolecular Concentration**

### Freshman Year

<i>Fall Semester</i>			<i>Credits</i>	<i>Spring Semester</i>			<i>Credits</i>
CH	101	Chemistry: A Molecular Science <sup>1</sup>	3	CH	201	Chemistry – Quantitative Sci.	3
CH	102	General Chemistry Lab <sup>1</sup>	1	CH	202	Quantitative Chem Lab	1
E	101	Introduction to Engr & Prob Solv <sup>1</sup>	1	MA	241	Calculus II <sup>1</sup>	4
E	115	Intro to Computing Environ	1	PY	205	Physics for Engr & Sci I <sup>1</sup>	4
ENG	101	Academic Writing and Research <sup>1</sup>	4	EC	205	Economics (or EC 201 or ARE 201*)	3
MA	141	Calculus I <sup>1</sup>	4	HES*	***	Phys Ed/Healthy Living Elective*	1
HES*	1**	Fitness & Wellness Course*	1	E	102	Engr in the 21st Century	2
<b>Semester Total</b>			<b>15</b>	<b>Semester Total</b>			<b>18</b>

### Sophomore Year

<i>Fall Semester</i>			<i>Credits</i>	<i>Spring Semester</i>			<i>Credits</i>
CH	221	Organic Chemistry I	3	CH	223	Organic Chemistry II	3
CH	222	Organic Chemistry I Lab	1	CH	224	Organic Chemistry II Lab	1
CHE	205	Chemical Proc Prin	4	CHE	225	Chemical Proc Systems	3
MA	242	Calculus III	4	MA	341	Applied Differential Eq	3
PY	208	Physics Engr & Scientists II	4	BIO	183	General Biology	4
<b>Semester Total</b>			<b>16</b>	***	***	GEP Requirement*	3
				<b>Semester Total</b>			<b>17</b>

### Junior Year

<i>Fall Semester</i>			<i>Credits</i>	<i>Spring Semester</i>			<i>Credits</i>
BCH	451	Intro Biochemistry	4	BIT	***	BIT Lab Modules <sup>2</sup>	4
CHE	311	Transport Processes I	3	CHE	312	Transport Processes II	3
CHE	315	Chem Process Thermo	3	CHE	316	Thermo of Chem & Phase Eq	3
BIT	410	Manipulation ReDNA (4 cr.) <u>or</u>		CHE	330	Chem Engr Lab I	4
CHE	395	Professional Dev Seminar	1	***	***	GEP Requirement*	2-3
***	***	GEP Requirement*	3	<b>Semester Total</b>			<b>16-17</b>
<b>Semester Total</b>			<b>18</b>				

### Senior Year

<i>Fall Semester</i>			<i>Credits</i>	<i>Spring Semester</i>			<i>Credits</i>
CHE	446	Des & Analy Chem Reactors	3	CHE	435	Proc System Analy & Control	3
CHE	450	CHE Design I	3	CHE	451	CHE Design II	3
CHE	497	CHE Proj I	3	CHE	448	Bioreactor Design	2
***	***	GEP Requirement*	3	CHE	452	Biomolecular Engineering	2
***	***	Biochem Minor Grn F (GEP req*) <sup>3</sup>	3	***	***	Technical Elective <sup>4</sup>	2-3
<b>Semester Total</b>			<b>15</b>	***	***	GEP Requirement*	3
				<b>Semester Total</b>			<b>14</b>

**Minimum Total Credit Hours Required for Graduation 128**

**Major/Program requirements and footnotes:**

<sup>1a</sup> Must be completed with grade of (C) or higher.

<sup>1b</sup> Must be completed with grade of (C-) or higher.

<sup>2</sup> Students must take two 2-hour BIT lab modules. Eligible labs include any BIT lab numbered 462 and above.

<sup>3</sup> Biotech Minor Group E must be selected from: IDS 201, 303; STS 302, 304; STS(PHI) 325. If another IP GEP course has already been taken, BIT 501 (1 hr) can satisfy the Biotech Minor Group E requirement.

<sup>4</sup> Technical Elective must be selected from: any BIT course not already taken to fulfill another requirement, BEC 425, BEC 426, BEC 330, BEC 462, BEC 463, BEC 480, BEC 485, BEC 488; any CHE course numbered CHE 460 or above, including CHE 596 special topics; CE 373, ECE 331, MSE 201, NE 419, NE 491.

**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: Fulfilled as part of the Major requirements.

MA 141, 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, 201; PY 205, 206, 208, 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 205 or EC 201 or ARE 201

**E. Health & Exercise Studies** (2 credit hours; at least one 100-level Fitness and Wellness Course)

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

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

X Humanities/Social Sciences/Visual and Performing Arts

**G. Interdisciplinary Perspectives** (5-6 credit hours)

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: E102

**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 US Diversity course list or choose a course identified on the approved GEP course lists as meeting the US Diversity (USD) co-requisite. The following course(s) if completed as part of the Major requirements may fulfill part or all of 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) if completed as part of the Major requirements may fulfill part or all of this requirement: None

**K. Foreign Language proficiency** Proficiency at the FL 102 level is required for graduation.



<b>MAJOR FIELD OF STUDY REQUIREMENTS:</b>		
<b><i>Required Courses/Groups/ Electives:</i></b>	<b><i>Credit Hours</i></b>	<b><i>GEP category, if applicable</i></b>
Indicate if course or course groupings have a C-wall or MGPA requirement		List GEP category and hours satisfied by a Major requirement
<b>Math</b>		
MA 141 (C), MA 241 (C), MA 242 (C-)	12	Mathematics (6 hours)
<b>GRP 031</b> Differential Equations (MA 341 or MA 301)(C-)	3	
<b>Sciences</b>		
CH 101 (C), CH 102(C)	4	Natural Sciences (4 hours)
PY 205(C-), PY 208	8	Natural Sciences (4 hours)
CH 201(C-), CH 202	4	
<b>GRP 020</b> Organic Chemistry 1 with Lab (CH 221 (C-) and CH 222)	4	
<b>GRP 025</b> Organic Chemistry 2 with Lab (CH 223 and CH 224)	4	
<b>GRP 030</b> BIO 183	4	
<b>GRP 032</b> BIT 410	4	
<b>GRP 033</b> BIT Laboratory Modules (any BIT lab 462 or above)	4	
BCH 451	4	
<b>CHE Major</b>		
CHE 205(C-)	4	
CHE 225(C-)	3	
CHE 311(C-)	3	
CHE 312	3	
CHE 315(C-)	3	
CHE 316	3	
CHE 330	4	
CHE 395	1	
CHE 435	3	
CHE 446	3	
CHE 448	2	
CHE 450	3	
CHE 451	3	
CHE 452	2	
CHE 497	3	
<b>GRP 037</b> Bioethics Elective (IDS 201, 303; PHI 325; STS 302, 304, 320, 325)	3	
<b>Concentration Courses/Groups/Electives:</b>		
<b>Technical Elective:</b>		
Any BIT course not already taken to fulfill another requirement; BEC 425, BEC 330, BEC (CHE) 462, BEC 480, BEC 485, BEC 488, BBS 426; any CHE course numbered 460 or above; PSE 425, CE 373, ECE 331, ISE 311, MSE 201, MAE 206.	2-3	
<b>Total credit hours under Major Field of Study:</b>	103 hours	
<i>Minimum 27 hours required in program area.</i>		
<b>COLLEGE REQUIREMENTS:</b>		

<b>Orientation Course(s):</b> E 101 (C), E102 (C), and E 115	4	Technology Fluency Requirement
<b>Other:</b> (ex: Adv Communication courses) Economics Elective (EC 205, EC201, or ARE 201)	3	Social Science
<b>Total credit hours under College Requirements:</b>	<b>7 hours</b>	

<b><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></b>  <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>  <i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		<b>At least one of the following must be listed:</b> <sup>1</sup> Choose course(s) from the University Approved GEP course list for this category. <sup>2</sup> Minimum requirements are satisfied by Major/College course requirements. <sup>3</sup> 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. <sup>4</sup> Co-requisite is satisfied by a Major/College course requirement. <sup>5</sup> Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences, or Visual & Performing Arts. <sup>6</sup> Choose course(s) from the University Approved GEP course lists for the Natural and Mathematical Sciences.
<b>General Education Program Requirements:</b> Minimum 39-40 hrs	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <b>(choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (minimum of 6 credits) (at least one with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>Natural Sciences</b> (minimum of 7 credits) (at least 1 laboratory) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>English 101 (C-)</b>	4	ENG 101
<b>Humanities</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	6	Choose course(s) from the University Approved GEP course list for this category
<b>Social Sciences</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	3	Required College course satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Additional Breadth</b> (minimum of 3 credits) (Choose AB course list 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 and Diversity co-requisites.</i>	3	Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences or Visual and Performing Arts
<b>Interdisciplinary Perspective</b> (minimum of 5-6 credits) <i>Only course(s) in the Major may double-count to satisfy this requirement.</i>	X*	Choose course(s) from the University Approved GEP course list for this category
<b>Physical Education/Healthy Living</b> (including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category
<b>Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.</b>	<b>18 hours</b>	<b>* Required Departmental course in Bioethics will satisfy 3 hours of Interdisciplinary Perspectives category.</b>
<b>GEP Co-Requisites:</b>		<b>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 asterisks as indicated.</b>
<b>U.S. Diversity co-requisite*</b>	n/a	Choose course(s) from the University Approved GEP course list for this category
<b>Global Knowledge co-requisite**</b>	n/a	Choose course(s) from the University Approved GEP course list for this category
<b>Foreign Language Proficiency</b>	n/a	FL_102
<b>The following requirements must be satisfied within the College/Program:</b>		



<b>Advanced Communication</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	<b>128</b> Total hours	<b>Graduation requirements include: (1) 2.0 overall GPA or higher in all courses attempted at NCSU and (b) 2.0 GPA or higher in all CHE designated courses, or a (C-) or higher in all CHE designated courses.</b>

*FORMAT A – 01/2018*

## Chemical Engineering (BS): Biomolecular (14CHEBS-14CHEBIO)

### Freshman Year

Fall Semester	Credit	Spring Semester	Credit
CH 101 Chemistry A Molecular Sci. <sup>1</sup>	3	CH 201 Chemistry – Quantitative Sci. <sup>5</sup>	3
CH 102 General Chemistry Lab <sup>1</sup>	1	CH 202 Quantitative Chem. Lab	1
E 101 Intro to Engr & Prob Solv <sup>1</sup>	1	MA 241 Calculus II <sup>1</sup>	4
E 115 Intro to Computing Environ.	1	PY 205 Physics for Engineers & Scientists I <sup>1</sup>	3
ENG 101 Acad. Writing & Research <sup>1</sup>	4	PY 206 Physics for Engineer & Scientists I Lab	1
MA 141 Calculus I <sup>1</sup>	4	EC 205 Economics (or EC 201 or ARE 201*)	3
HES_*** Health & Exercise Studies Course* <sup>1</sup>	1	HES_*** Health & Exercise Studies Course*	1
	15		16

### Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
CH 221 Organic Chemistry I <sup>6</sup>	3	CH 223 Organic Chemistry II <sup>6</sup>	3
CH 222 Organic Chemistry I Lab <sup>6</sup>	1	CH 224 Organic Chemistry II Lab <sup>6</sup>	1
CHE 205 Chemical Proc. Princ <sup>5</sup>	4	CHE 225 Chem. Proc. Systems <sup>5</sup>	3
MA 242 Calculus III <sup>5</sup>	4	MA 341 Applied Differential Equations <sup>5</sup>	3
PY 208 Physics Engineers & Scientists II	3	BIO 183 Intro Biology: Cellular & Molecular Bio.	4
PY 209 Physics for Engineer & Scientists II Lab	1	GEP Requirement*	3
	16		17

## Junior Year

Fall Semester	Credit	Spring Semester	Credit
BCH 451 Intro Biochemistry	4	BIT Lab Modules <sup>2</sup>	4
CHE 311 Transport Processes I <sup>5</sup>	3	CHE 312 Transport Processes II	3
CHE 315 Chem. Process Thermo <sup>5</sup>	3	CHE 316 Thermo of Chem & Phase Eq	3
BIT 410 Manipulation ReDNA (4 cr.)	4	CHE 330 Chem Engr Lab I	4
GEP Requirement*	3	GEP Requirement *	2-3
CH 395 Professional Dev. Seminar	1		
	18		16-17

## Senior Year

Fall Semester	Credit	Spring Semester	Credit
CHE 447 Bioreactor Engineering	3	CHE 435 Proc. System Analy & Control	3
CHE 450 CHE Design I	3	CHE 451 CHE Design II	3
CHE 497 CHE Engr Projects I	3	CHE 551 Biochemical Engineering	3
GEP Requirement*	3	Technical Elective <sup>4</sup>	2-3
Biotech Minor Group E (GEP IP req*) <sup>3</sup>	3	GEP Requirement*	3
	15		14-15

Minimum Credit Hours Required for Graduation<sup>\*,I,J,K</sup>:

## **Major/Program requirements and footnotes**

<sup>1</sup> Minimum grade of C- required.

<sup>2</sup> Students must take two 2-hour BIT lab modules from the following lists. In addition, selected BIT 495 Special Topics Courses may be approved by the Biotechnology advisor.

- BIT Lab Module – Group 1 (2 cr): BIT/CHE 464, BIT 467/567, BIT 474/574, BIT/CH 572
- BIT Lab Module – Group 2 (2 cr): Any course in Group 1 + BIT 466/566, BIT 471/571

<sup>3</sup> Biotech Minor Group E must be selected from: IDS 201, 303; STS 302, 304, 320; STS/PHI 325

<sup>4</sup> Technical Elective must be selected from: BEC 330; BEC(CHE) 462, BEC(CHE) 463; BEC 480, 485, 488; BBS 426; CHE/BIT 464; PSE 425; CE 373, ECE 331, MSE 210, NE 419, PSE 425, TE 466.

<sup>5</sup> Grade of C (2.0) or higher required.

<sup>6</sup> CH 225/226 may substitute for CH 221/222 and CH 227/228 may substitute for CH 223/224.

## **\*General Education Program (GEP) requirements and GEP Footnotes**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at <https://oucc.dasa.ncsu.edu/general-education-program/>.

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

*Course(s) 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)

*Course(s) 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:*

### **D. Social Sciences** (3 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 205, EC 201, or ARE 201*

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

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

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

☒ Humanities/Social Sciences/Visual and Performing Arts

### **G. Interdisciplinary Perspectives** (5-6 credit hours)

*2 credits to be selected from the approved GEP Interdisciplinary Perspectives list. Course chosen to meet the Biotech Minor Group E requirement in the Major satisfies 3 credit hours of the 5 credit hours needed to fulfill the GEP Interdisciplinary Perspectives requirement.*

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

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



requirements

**I. U.S. Diversity (USD)**

*Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:*

**J. Global Knowledge (GK)**

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

**K. Foreign Language proficiency** – Proficiency at the FL\_102 level is required for graduation.

## 6. FORMAT B – CURRICULUM REQUIREMENTS

<b>Degree Title:</b> Bachelor of Science in Chemical Engineering, Biomolecular Concentration		
<b>Current Degree Key:</b> 14CHEBS- 14CHEBIO		
<b>Effective Date of Revision:</b> 01/2018		
<b>MAJOR FIELD OF STUDY REQUIREMENTS:</b>		
<b>Required Courses/Groups/ Electives:</b>	<b>Credit Hours</b>	<b>GEP category, if applicable</b>
Indicate if course or course groupings have a C-wall or MGPA requirement		List GEP category and hours satisfied by a Major requirement
<b>Math</b>		
MA 141 (C-), MA 241 (C-), MA 242 (C-)	12	Mathematics (6 hours)
GRP 031 Differential Equations (MA 341 or MA 301)(C-)	3	
<b>Sciences</b>		
CH 101 (C-), CH 102(C-)	4	Natural Sciences (4 hours)
PY 205(C-), PY 208	8	Natural Sciences (4 hours)
CH 201(C-), CH 202	4	
GRP 020 Organic Chemistry 1 with Lab (CH 221 and CH 222)	4	
GRP 025 Organic Chemistry 2 with Lab (CH 223 and CH 224)	4	
GRP 030 BIO 183	4	
GRP 032 BIT 410	4	
GRP 033 BIT Laboratory Modules (BIT 462, 464, 466, 467, 468, 481, 569)	4	
BCH 451	4	
<b>CHE Major</b>		
CHE 205(C-)	4	
CHE 225(C-)	3	
CHE 311(C-)	3	
CHE 312	3	
CHE 315(C-)	3	
CHE 316	3	
CHE 330	4	
CHE 395	1	
CHE 435	3	
CHE 447	3	
CHE 450	3	
CHE 451	3	
CHE 497	3	
CHE 551	3	
GRP 037 Bioethics Elective (IDS 201, 303; PHI 325; STS 302, 304, 320, 325)	3	
<b>Concentration Courses/Groups/Electives:</b>		
<b>Technical Elective:</b>		
BEC 330, BEC (CHE) 462, BEC (CHE) 463, BEC 480, BEC 485, BEC 488, BBS 426, BIT 464, PSE 425, CE 373, ECE 331, MSE 201, NE 419, TE 466.	2	

<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	<b>102 hours</b>	
<b>COLLEGE REQUIREMENTS:</b>		
<b>Orientation Course(s):</b> E 101, E 115 and E102	4	Technology Fluency Requirement
<b>Other:</b> (ex: Adv Communication courses) Economics Elective (EC 205, EC201, or ARE 201)	3	Social Science
<b>Total credit hours under College Requirements:</b>	<b>7 hours</b>	

<b>NGSU GENERAL EDUCATION PROGRAM REQUIREMENTS</b>		<b>At least one of the following must be listed:</b> <sup>1</sup> Choose course(s) from the University Approved GEP course list for this category. <sup>2</sup> Minimum requirements are satisfied by Major/College course requirements. <sup>3</sup> 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. <sup>4</sup> Co-requisite is satisfied by a Major/College course requirement. <sup>5</sup> Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences, or Visual & Performing Arts. <sup>6</sup> Choose course(s) from the University Approved GEP course lists for the Natural and Mathematical Sciences.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <i>(choose applicable statement from 1-6 listed above)</i>
<b>Mathematical Sciences</b> (minimum of 6 credits) (at least one with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>Natural Sciences</b> (minimum of 7 credits) (at least 1 laboratory) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>English 101 (C-)</b>	4	ENG 101
<b>Humanities</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	6	Choose course(s) from the University Approved GEP course list for this category
<b>Social Sciences</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Required College course satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Additional Breadth</b> (minimum of 3 credits) (Choose AB course list 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 and Diversity co-requisites.</i>	3	Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences or Visual and Performing Arts
<b>Interdisciplinary Perspective</b> (minimum of 5-6 credits) <i>Only course(s) in the Major may double-count to satisfy this requirement.</i>	3	Choose course(s) from the University Approved GEP course list for this category
<b>Physical Education/Healthy Living</b> (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category
<b>Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.</b>	<b>18 hours</b>	<sup>6</sup> Required Departmental course in Bioethics will satisfy 3 hours of Humanities, Additional Breadth, or Interdisciplinary Perspectives category.

<b>GEP Co-Requisites:</b>		<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 asterisks as indicated.</i>
<b>U.S. Diversity co-requisite*</b>	n/a	<i>Choose course(s) from the University Approved GEP course list for this category</i>
<b>Global Knowledge co-requisite**</b>	n/a	<i>Choose course(s) from the University Approved GEP course list for this category</i>
<b>Foreign Language Proficiency</b>	n/a	FL_102
<b>The following requirements must be satisfied within the College/Program:</b>		
<b>Advanced Communication</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	<b>127 Total hours</b>	<b>Graduation requirements include: (1) 2.0 overall GPA or higher in all courses attempted at NCSU and (b) 2.0 GPA or higher in all CHE designated courses, or a (C-) or higher in all CHE designated courses.</b>

NC STATE UNIVERSITY

Lisa G. Bullard  
Campus Box 7905  
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919-515-7455

To: Dr. Lisa Zapata  
Interim Vice-Chancellor  
Division of Academic and Student Affairs

From: Dr. Lisa Bullard  
Dir. of Undergraduate Programs, Department of Chemical & Biomolecular Eng.

Date: March 11, 2020

Subject: Updates to 14CHEBS-14CHEBMF

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**Justification:** The Department of Chemical & Biomolecular Engineering is updating the Biomanufacturing Concentration in order to better reflect the current state of the science, respond to industry requests for student training, and ensure that students receive a strong foundation in both reactor design and bioreactor design.

**Proposed Revisions with Reasons:**

1. BEC 363 (Foundations of Recombinant Microorganisms for Biomanufacturing) will be replaced starting this fall by BEC 425 (Molecular Biology for Biomanufacturing). Both courses are 2 credits, so there is no change in credit hours. Since the new course is still being approved, this fall's course will be listed in MyPack under BEC 495 001, Lab 201 (first 8 weeks). The impetus for this course was the feedback from industry that most ChE students lack the molecular biology background needed for the ever-changing biomanufacturing industry. The content of this course covers the general microbiology skills taught in BEC 353 combined with the molecular biology techniques and expression system concepts of BEC 440.
2. Students will take CHE 446 (Design and Analysis of Chemical Reactors) instead of CHE 447 (Bioreactor Engineering). CHE 446 is offered in the fall semester and will now be taken by *all* CBE students. CHE 447 will no longer be offered. Both courses are 3 credits, so there is no change in credit hours.
3. A new course, BEC/CHE 448 (Bioreactor Design), will be offered in the senior spring semester to more fully address bioreactor design content. This will be a 2-credit, 8 week course (first 8 weeks).
4. The list of biomanufacturing electives has been updated to reflect the addition of new BEC courses since 2012. The updated list includes (BEC 445/545, 462, BEC 475/575, 480, 483, 485, 488, 497).
5. Total credit hours for the concentration will change from 125 to 127 with the addition of the 2-credit BEC/CHE 448.

Proposed effective date: 07/2020

## Routing for DASA or Graduate School Approval of Other Degree Program Actions

**Type of Action:** Enter "X" for Action Type(s) and list Title and Prefix(s) as indicated

☐ New Minor / Concentration  
Proposed Minor / Concentration Title \_\_\_\_\_  
☐ Change in Minor / Concentration Title  
Current Minor / Concentration Title: \_\_\_\_\_  
Proposed Minor / Concentration Title: \_\_\_\_\_  
☒ Change in Curricular/Program Requirements

Proposed Effective Date: 07/2020

Program Contact: Lisa Bullard

Proposed CIP Code (see <https://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>): 14.0702

**Routing of Action:** Indicate date when the following occurs

### **Completed Proposal**

3/12/20

\_\_\_\_\_ Department Head endorses\*  
\_\_\_\_\_ College Curriculum Committee (undergraduate or graduate) recommends\*  
\_\_\_\_\_ College Dean endorses\*

### **Proposal moves to Undergraduate or Graduate office for routing**

\_\_\_\_\_ Recommended by Vice Provost, DELTA, if applies\*  
\_\_\_\_\_ Associate Deans Council **or** Graduate Operations Council informed  
\_\_\_\_\_ University Courses & Curriculum Committee **or** Administrative Board of the Graduate School recommends  
\_\_\_\_\_ Dean (Graduate School or DASA) approves\*

\* Signature is required on the signature page for the action



**North Carolina State University**  
**Routing for DASA or Graduate School Approval of Other Degree Program Actions**

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

**Completed Proposal**

**Endorsed By:**

	3/12/20
Head, Department/Program	Date

**Recommended By:**

	3/26/2020
Chair, College Curriculum Committee	Date

**Endorsed By:**

	4/16/2020
College Dean	Date

**Proposal moves to Undergraduate or Graduate office for routing**

**Recommended By:**

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

**Recommended By:**

Chair, University Courses & Curricula Committee or Administrative Board of the Graduate School	Date
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**Approved By:**

Dean, DASA or the Graduate School	
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# Chemical Engineering

## GEP FORMAT A

(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Current:

Proposed: X

Proposed Effective Semester: 07/2020

DEGREE TITLE: **B. S. in Chemical Engineering**

CONCENTRATION TITLE: **Biomanufacturing Sciences**

CURRENT DEGREE KEY: **14CHEBS-14CHEBMF**

### Freshman Year

Fall Semester		Credits	Spring Semester		Credits
CH	101 Chemistry, A Molecular Science <sup>1</sup>	3	CH	201 Chemistry – Quantitative Sci.	3
CH	102 General Chemistry Lab <sup>1</sup>	1	CH	202 Quantitative Chem Lab	1
E	101 Introduction to Engr & Prob Solv <sup>1</sup>	1	MA	241 Calculus II <sup>1</sup>	4
E	115 Intro to Computing Environ	1	PY	205 Physics for Engr & Sc I <sup>1</sup>	4
ENG	101 Academic Writing and Research <sup>1</sup>	4	HES**	*** Phys Ed/Healthy Living Elective*	1
MA	141 Calculus I <sup>1</sup>	4	E	102 Engr in the 21st Century	2
HES*	1** Fitness & Wellness Course*	1			
		<b>Semester Total 15</b>			<b>Semester Total 15</b>

### Sophomore Year

Fall Semester		Credits	Spring Semester		Credits
BEC	220 Intro Biomanufacturing	1	BIO	183 Intro Biol: Cellular & Molecular	4
CH	221 Organic Chemistry I	3	CH	223 Organic Chemistry II	3
CH	222 Organic Chemistry I Lab	1	CH	224 Organic Chemistry II Lab	1
CHE	205 Chemical Proc Prin	4	CHE	225 Chemical Proc Systems	3
MA	242 Calculus III	4	MA	341 Applied Differential Eq	3
PY	208 Physics Engr & Scientists II	4	EC	205 Economics (or EC 201 or ARE 201)*	3
		<b>Semester Total 17</b>			<b>Semester Total 14</b>

### Junior Year

Fall Semester		Credits	Spring Semester		Credits
BCH	451 BCH 451 Principles of Biochemistry	4	BBS	426 Industrial Microbiology & Bioman Lab	2
BEC	425 Molecular Bio Biomanufacturing	2	BEC	330 Prin & Applications of Bioseparations	2
BEC	463 Ferm of Recomb Microorg	2	CHE	312 Transport Processes II	3
CHE	311 Transport Processes I	3	CHE	316 Thermo of Chem & Phase Eq	3
CHE	315 Chem Process Thermo	3	***	*** Free Elective	3
***	*** GEP Requirement*	3	***	*** GEP Requirement*	3
		<b>Semester Total 17</b>			<b>Semester Total 16</b>

### Senior Year

Fall Semester		Credits	Spring Semester		Credits
BEC	436 Downstream Proc of Biomaterials	2	***	*** Biomanufacturing Elective <sup>2</sup>	2
BEC	480 Large Scale Fermentation or		CHE	435 Proc System Analy & Control	3
BEC	485 Large-Scale Recovery & Purification	2	CHE	451 CHE Design II	3
CHE	395 Professional Dev Seminar	1	***	*** Bioethics Course (GEP IP Req*) <sup>3</sup>	3
CHE	446 Des & Analy Chem Reactors	3	***	*** GEP Requirement*	3
CHE	450 CHE Design I	3	CHE	448 Bioreactor Design	2
***	*** GEP Requirement*	3			
		<b>Semester Total 14</b>			<b>Semester Total 16</b>

Minimum Total Credit Hours Required for Graduation **127\***



**Major/Program requirements and footnotes:**

<sup>1a</sup> Must be completed with grade of (C) or higher.

<sup>1b</sup> Must be completed with grade of (C-) or higher.

<sup>2</sup> The Biomanufacturing elective course must be selected from the following list: BEC 445/545, BEC 462, BEC 475/575, BEC 480/580, BEC/BME 483, BEC 485/585, BEC 488, ~~BEC 497~~. NOTE: Course selected from the choice of either BEC 480/485 cannot be used to satisfy this requirement (i.e. counted twice).

<sup>3</sup> The bioethics course must be selected from: IDS 201, 303; STS 302, 304; ~~STS~~(PHI) 325.

**\* 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: Fulfilled as part of the Major requirements. MA 141, 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, 201; PY 205, 206, 208, 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 205 or EC 201 or ARE 201*

**E. Health & Exercise Studies (2 credit hours; at least one 100-level Fitness and Wellness Course)**

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

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

X Humanities/Social Sciences/Visual and Performing Arts

**G. Interdisciplinary Perspectives (5-6 credit hours)**

*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: E102*

**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 US Diversity course list or choose a course identified on the approved GEP course lists as meeting the US Diversity (USD) co-requisite. The following course(s) if completed as part of the Major requirements may fulfill part or all of 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) if completed as part of the Major requirements may fulfill part or all of this requirement: None*

**K. Foreign Language proficiency Proficiency at the FL\_102 level is required for graduation.**

## GEP FORMAT B – CURRICULUM REQUIREMENTS

<b>Degree Title:</b> Bachelor of Science in Chemical Engineering, Biomanufacturing Sciences Concentration
<b>Current Degree Key:</b> 14CHEBMF
<b>Effective Date of Revision:</b> 7/2020

MAJOR FIELD OF STUDY REQUIREMENTS:		
<i>Required Courses/Groups/ Electives:</i>	<i>Credit Hours</i>	P category, if applicable
<p>Indicate if course or course groupings have a C-wall or MGPA requirement</p> <p><b>Math</b>  MA 141(C), MA 241(C), MA 242 (C-)  MA 341 (C-)</p> <p><b>Sciences</b>  CH 101(C), CH 102(C)  PY 205(C), PY 208  CH 201(C-), CH 202  <b>GRP 020</b> Organic Chemistry 1 with Lab (CH 221 (C-) and CH 222)  <b>GRP 025</b> Organic Chemistry 2 with Lab (CH 223 and CH 224)  <b>GRP 035</b> BIO 183 or ZO 160  BCH 451</p> <p><b>CHE Major</b>  CHE 205(C-)  CHE 225(C-)  CHE 311(C-)  CHE 312  CHE 315(C-)  CHE 316  CHE 395  CHE 435  CHE 446  CHE 448  CHE 450  CHE 451</p> <p><b>Other Major</b>  BEC 220  BEC 425  BEC 330  BEC 463  BEC 426  BBS 436</p> <p><b>GRP 037</b> Bioethics Elective (IDS 201, 303; PHI 325; STS 302, 304, 320, 325)  <b>GRP 038</b> BEC 480 or 485  <b>GRP 039</b> Biomanufacturing Elective (BEC 445/545, 462, BEC 475/575, 480, 483, 485, 488, 497)</p>	<p>12 3</p> <p>4 8 4 4 4 4</p> <p>4 3 3 3 3 3 1 3 3 2 3 3</p> <p>1 2 2 2 2 2</p> <p>3 2 2</p>	<p>List GEP category and hours satisfied by a Major requirement</p> <p>Mathematics (6 hours)</p> <p>Natural Sciences (4 hours) Natural Sciences (4 hours)</p> <p>GEP Humanities or Interdisciplinary Perspectives category</p>

<b>Concentration Courses/Groups/Electives:</b>		
<b>Free Electives:</b> EXC 901 Free Elective EXCEPT NOT (CH 111, ECI 105, ENG 110, FLC 1**, FLE 1**, FLF 1**, FLG 1**, FLH 1**, FLI 1**, FLJ 1**, FLK 1**, FLN 1**, FLP 1**, FLR 1**, FLS 1**, GRK 1**, LAT 1**, MA 100, MA 101, MA 103, MA 107, MA 108, MA 111, MA 121, MA 131, MA 231, PY 211, PY 212)	3	
<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	102 hours	
<b>COLLEGE REQUIREMENTS:</b>		
<b>Orientation Course(s):</b> E 101 (C), E102 (C), and E 115	4	Technology Fluency Requirement
<b>Other:</b> (ex: Adv Communication courses) Economics Elective (EC 205, 201; ARE 201)	3	Social Science
<b>Total credit hours under College Requirements:</b>	7 hours	

<b>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</b>  <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>  <i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		At least one of the following must be listed: <sup>1</sup> Choose course(s) from the University Approved GEP course list for this category. <sup>2</sup> Minimum requirements are satisfied by Major/College course requirements. <sup>3</sup> 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. <sup>4</sup> Co-requisite is satisfied by a Major/College course requirement. <sup>5</sup> Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences, or Visual & Performing Arts. <sup>6</sup> Choose course(s) from the University Approved GEP course lists for the Natural and Mathematical Sciences.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<i>Credit hours</i>	<b>How will the GEP requirement be met?</b> <b>(choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (minimum of 6 credits) (at least one with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>Natural Sciences</b> (minimum of 7 credits) (at least 1 laboratory) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>English 101 (C-)</b>	4	ENG 101
<b>Humanities</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	6	Choose course(s) from the University Approved GEP course list for this category
<b>Social Sciences</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	3	Required College course satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Additional Breadth</b> (minimum of 3 credits) (Choose AB course list 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 and Diversity co-requisites.</i>	3	Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences or Visual and Performing Arts



<b>Interdisciplinary Perspective</b> <i>(minimum of 5-6 credits)</i> <i>Only course(s) in the Major may double-count to satisfy this requirement.</i>	X*	Choose course(s) from the University Approved GEP course list for this category
<b>Physical Education/Healthy Living</b>  (including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category
<b>Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.</b>	18 hours	* Required Departmental course in Bioethics will satisfy 3 hours of Interdisciplinary Perspectives category.
<b>GEP Co-Requisites:</b>		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 asterisks as indicated.
<b>U.S. Diversity co-requisite*</b>	n/a	Choose course(s) from the University Approved GEP course list for this category
<b>Global Knowledge co-requisite**</b>	n/a	Choose course(s) from the University Approved GEP course list for this category
<b>Foreign Language Proficiency</b>	n/a	FL_102
<b>The following requirements must be satisfied within the College/Program:</b>		
<b>Advanced Communication</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements

<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	127 Total hours	Graduation requirements include: (1) 2.0 overall GPA or higher in all courses attempted at NCSU and (b) 2.0 GPA or higher in all CHE designated courses, or a (C-) or higher in all CHE designated courses.
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# Chemical Engineering (BS): Biomanufacturing Sciences (14CHEBMF)

## Freshman Year

Fall Semester	Credit	Spring Semester	Credit
CH 101 Chemistry, A Molecular Science <sup>4,6</sup>	3	CH 201 Chemistry – Quantitative Sci. <sup>1,6</sup>	3
CH 102 General Chemistry Lab <sup>4,6</sup>	1	CH 202 Quantitative Chem Lab <sup>6</sup>	1
E 101 Introduction to Engr & Prob Solv <sup>1</sup>	1	MA 241 Calculus II <sup>4</sup>	4
E 115 Intro to Computing Environ	1	PY 205 Physics for Engr & Sc I <sup>4</sup>	3
ENG 101 Academic Writing and Research <sup>1</sup>	4	PY 206 Physics for Engineer & Scientists I Lab <sup>4</sup>	1
MA 141 Calculus I <sup>4</sup>	4	EC 205 Economics (or EC 201 or ARE 201)*	3
HES_*** Health & Exercise Studies Course	1	HES_*** Health & Exercise Studies Course	1
	15		16

## Sophomore Year

Fall Semester	Credit	Spring Semester	Credit
BEC 220 Intro Biomanufacturing	1	BIO 183 Intro Biology: Cellular & Molecular	4
CH 221 Organic Chemistry I <sup>5,1</sup>	3	CH 223 Organic Chemistry II <sup>5</sup>	3
CH 222 Organic Chemistry I Lab <sup>5</sup>	1	CH 224 Organic Chemistry II Lab <sup>5</sup>	1
CHE 205 Chemical Proc Prin <sup>1</sup>	4	CHE 225 Chemical Proc Systems <sup>1</sup>	3
MA 242 Calculus III <sup>1</sup>	4	MA 341 Applied Differential Eq <sup>1</sup>	3
PY 208 Physics Engr & Scientists II	3	GEP Requirement*	3
PY 209 Physics for Engineer & Scientists II Lab	1		
	17		17

## Junior Year

Fall Semester	Credit	Spring Semester	Credit
BCH 451 Intro Biochemistry	4	BBS 426 Industrial Microbiology & Bioman Lab	4
BEC 363 Found. of Recomb Microorg for Biomanuf.	2	BEC 330 Prin & Applications of Biosparations	3
BEC 463 Ferm. of Recomb Microorg	2	CHE 312 Transport Processes II	1
CHE 311 Transport Processes I <sup>1</sup>	3	CHE 316 Thermo of Chem & Phase Eq	3
CHE 315 Chem Process Thermo <sup>1</sup>	3	Free Elective	3
GEP Requirement*	3	GEP Requirement*	3
	17		17

## Senior Year

Fall Semester	Credit	Spring Semester	Credit
BEC 436 Downstream Proc of Biomaterials	2	Biomanufacturing Elective <sup>2</sup>	2
BEC 480 Large Scale Fermentation OR BEC 485 Large Scale Recovery & Purification	2	CHE 435 Proc System Analy & Control	3
CHE 395 Professional Dev Seminar	1	CHE 451 CHE Design II	3
CHE 447 Bioreactor Engineering	3	Bioethics Course (GEP IP Req*) <sup>3</sup>	3
CHE 450 CHE Design I	3	GEP Requirement*	2-3
GEP Requirement*	3		
	14		13-14

Minimum Credit Hours Required for Graduation\*<sup>I,J,K</sup>:

125

### **Major/Program requirements and footnotes**

<sup>1</sup> Minimum grade of (C-) required.

<sup>2</sup> The Biomanufacturing elective course must be selected from the following list: BEC 440, 441, 462, 475, 480, 483, 485, 488, 497, 541. NOTE: Course selected from the choice of either BEC 480/485 cannot be used to satisfy this requirement (i.e. counted twice).

<sup>3</sup> The bioethics course must be selected from: IDS 201, 303; STS 302, 304, 320; STS(PHI) 325

<sup>4</sup> Grade of C (2.0) or higher required.

<sup>5</sup> CH 225/226 may substitute for CH 221/222 and CH 227/228 may substitute for CH 223/224.

<sup>6</sup> CH 103/104 may substitute for CH 101/102 and CH 203/204 may substitute for CH 201/202.

### **\*General Education Program (GEP) requirements and GEP Footnotes**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at <https://oucc.dasa.ncsu.edu/general-education-program/>.

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

*Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:*

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

*Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:*

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

*Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:*

**D. Social Sciences** (3 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 205, EC 201, or ARE 201*

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

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

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

☒ Humanities/Social Sciences/Visual and Performing Arts or ☐ Mathematical Sciences/Natural Sciences/Engineering

**G. Interdisciplinary Perspectives** (5-6 credit hours)

*2 credits to be selected from the approved GEP Interdisciplinary Perspectives list. Course chosen to meet the Biotech Minor Group E requirement in the Major satisfies 3 credit hours of the 5 credit hours needed to fulfill the GEP Interdisciplinary Perspectives requirement.*

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

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

**I. U.S. Diversity (USD)**

*Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this*

requirement:

**J. Global Knowledge (GK)**

*Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.*

*The following course(s) completed as part of the Major requirements may fulfill this requirement:*

**K. Foreign Language proficiency** – Proficiency at the FL\_102 level is required for graduation.



MAJOR FIELD OF STUDY REQUIREMENTS:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
<p>Indicate if course or course groupings have a C-wall or MGPA requirement</p> <p><b>Math</b>  MA 141(C-), MA 241(C-), MA 242  MA 341 (C-)</p> <p><b>Sciences</b>  CH 101(C-), CH 102(C-)  PY 205(C-), PY 208  CH 201(C-), CH 202  GRP 020 Organic Chemistry 1 with Lab (CH 221 and CH 222)  GRP 025 Organic Chemistry 2 with Lab (CH 223 and CH 224)  GRP 035 BIO 183 or ZO 160  BCH 451</p> <p><b>CHE Major</b>  CHE 205(C-)  CHE 225(C-)  CHE 311(C-)  CHE 312  CHE 315(C-)  CHE 316  CHE 395  CHE 435  CHE 447  CHE 450  CHE 451</p> <p><b>Other Major</b>  BEC 220  BEC 320  BEC 330  BEC 420  BEC 426  BBS 426</p> <p>GRP 037 Bioethics Elective (IDS 201, IDS/NR 303; PHI 325; STS 302, 304, 320, 325)  GRP 038 BEC 480 or 485  GRP 039 Biomanufacturing Elective (BEC 440, 442, 480, 485, 495, 497; CHE 463; BME 495; BIT 466, 470)</p>	<p>12 3</p> <p>4 8 4 4 4 4 4</p> <p>4 3 3 3 3 3 1 3 3 3 3</p> <p>1 2 2 2 2 2</p> <p>3 2 2</p>	<p>List GEP category and hours satisfied by a Major requirement</p> <p>Mathematics (6 hours)</p> <p>Natural Sciences (4 hours)  Natural Sciences (4 hours)</p> <p>GEP Interdisciplinary Perspectives category</p>
<b>Concentration Courses/Groups/Electives:</b>		
<p><b>Free Electives:</b>  EXC 901 Free Elective EXCEPT NOT  (CH 111, ECI 105, ENG 110, FLC 1**, FLE 1**, FLF 1**, FLG 1**, FLH 1**, FLI 1**, FLJ 1**, FLK 1**, FLN 1**, FLP 1**, FLR 1**, FLS 1**, GRK 1**, LAT 1**, MA 100, MA 101, MA 103,</p>	3	

MA 107, MA 108, MA 111, MA 121, MA 131, MA 231, PY 211, PY 212)		
<b>Total credit hours under Major Field of Study:</b> <i>Minimum 27 hours required in program area.</i>	<b>100 hours</b>	
<b>COLLEGE REQUIREMENTS:</b>		
<b>Orientation Course(s):</b> E 101, E 115 and <del>E 102</del>	<b>4</b>	Technology Fluency Requirement
<b>Other:</b> (ex: Adv Communication courses) Economics Elective (EC 205, 201; ARE 201)	<b>3</b>	Social Science
<b>Total credit hours under College Requirements:</b>	<b>7 hours</b>	

<b>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</b>  <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>  <i>Specific courses should not be listed in any of the fields below other than ENG 101.</i>		<b>At least one of the following must be listed:</b> <sup>1</sup> Choose course(s) from the University Approved GEP course list for this category. <sup>2</sup> Minimum requirements are satisfied by Major/College course requirements. <sup>3</sup> 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. <sup>4</sup> Co-requisite is satisfied by a Major/College course requirement. <sup>5</sup> Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences, or Visual & Performing Arts. <sup>6</sup> Choose course(s) from the University Approved GEP course lists for the Natural and Mathematical Sciences.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<b>Credit hours</b>	<b>How will the GEP requirement be met?</b> <i>(choose applicable statement from 1-6 listed above)</i>
<b>Mathematical Sciences</b> (minimum of 6 credits) (at least one with MA or ST prefix) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>Natural Sciences</b> (minimum of 7 credits) (at least 1 laboratory) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	X	Minimum requirements are satisfied by Major course requirements
<b>English 101 (C-)</b>	4	ENG 101
<b>Humanities</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	6	Choose course(s) from the University Approved GEP course list for this category
<b>Social Sciences</b> (minimum of 6 credits) (from two different disciplines) <i>Course(s) in the Major may double-count to satisfy this requirement and also satisfy both the Global Knowledge and Diversity co-requisites.</i>	3	Required College course satisfies 3 credit hrs of this requirement. Remaining hours required must be chosen from the University Approved GEP course list for the category.
<b>Additional Breadth</b> (minimum of 3 credits) (Choose AB course list 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 and Diversity co-requisites.</i>	3	Choose course(s) from the University Approved GEP course lists for the Humanities, Social Sciences or Visual and Performing Arts
<b>Interdisciplinary Perspective</b> (minimum of 5-6 credits) <i>Only course(s) in the Major may double-count to satisfy this requirement.</i>	3	Choose course(s) from the University Approved GEP course list for this category
<b>Physical Education/Healthy Living</b> (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category
<b>Total credit hours needed to complete GEP that are not satisfied as part of the Major/College requirements.</b>	<b>21 hours</b>	<sup>*</sup> Required Departmental course in Bioethics will satisfy 3 hours of Humanities, Additional Breadth, or Interdisciplinary Perspectives category.
<b>GEP Co-Requisites:</b>		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 asterisks as indicated.

<b>U.S. Diversity co-requisite*</b>	n/a	<i>Choose course(s) from the University Approved GEP course list for this category</i>
<b>Global Knowledge co-requisite**</b>	n/a	<i>Choose course(s) from the University Approved GEP course list for this category</i>
<b>Foreign Language Proficiency</b>	n/a	FL_102
<b>The following requirements must be satisfied within the College/Program:</b>		
<b>Advanced Communication</b>	X	Satisfied by College/Program Requirements
<b>Technology Fluency</b>	X	Satisfied by College/Program Requirements

<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	<b>125 Total Hours</b>	<b>Graduation requirements include: (1) 2.0 overall GPA or higher in all courses attempted at NCSU and (b) 2.0 GPA or higher in all CHE designated courses, or a (C-) or higher in all CHE designated courses.</b>
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## **Curriculum Action Memorandum**

To: University Courses and Curriculum Committee  
From: Edward P. Fitts Department of Industrial & Systems Engineering  
College of Engineering  
Date: March 25, 2020

### Affected Plans:

Bachelor of Science in Industrial Engineering (14IEBS)

### Revisions:

Update to Curriculum Plan for 14IEBS

The Edward P. Fitts Department of Industrial & Systems Engineering has modified their 8-semester display split the Senior Design Capstone into a two-semester sequence. The new Format A also incorporates previously approved updates to the Engineering Science Electives.

### Justification:

Edward P. Fitts Department of Industrial & Systems Engineering has moved from a single semester to a 2-semester Senior Design Capstone. ISE 398 (new course/1 CR) will precede the current ISE 498 course and contain the Lean Six Sigma content required for the capstone. ISE 498 will move to be a primarily project-based course.

### Impact to the programs:

There is no impact to other departments.

### Proposed effective date for revision:

Fall 2020 - 2208

SIGNATURE PAGE

CURRICULUM ACTION FOR 14 IEBS

RECOMMENDED By:

*Julie L. Loran*

3/26/2020

\_\_\_\_\_  
HEAD, DEPARTMENT/ PROGRAM

\_\_\_\_\_  
DATE

ENDORSED By:

*David W. Parish*

3-26-2020

\_\_\_\_\_  
CHAIR, COLLEGE COURSE & CURRICULA COMMITTEE

\_\_\_\_\_  
DATE

*Jerome P. Lavelle*

4-16-2020

\_\_\_\_\_  
COLLEGE DEAN

\_\_\_\_\_  
DATE

APPROVED By:

\_\_\_\_\_  
CHAIR, UNIVERSITY COURSES & CURRICULA COMMITTEE

\_\_\_\_\_  
DATE

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CHAIR, COUNCIL ON UNDERGRADUATE EDUCATION

\_\_\_\_\_  
DATE

\_\_\_\_\_  
DEAN, DIVISION OF ACADEMIC AND STUDENT AFFAIRS (DASA)

\_\_\_\_\_  
DATE

APPROVED EFFECTIVE DATE \_\_\_\_\_

FORMAT A  
(SEMESTER-BY-SEMESTER CURRICULUM DISPLAY)

Indicate display status: Current: X Proposed: Proposed Effective Semester: Fall 2020

Degree/Plan Title: Concentration/Subplan Title:

Plan SIS Code: Subplan SIS Code:

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
CH101 Chemistry, A Molecular Science	3	EC205 Economics <sup>1</sup> (or EC201 or ARE201)	3
CH102 General Chemistry Lab	1	MA241 Calculus II	4
E101 Intro to Engineering & Problem Solving	1	PY205 Physics for Engineers and Scientists I	4
E115 Introduction to Computing Environments	1	E102 Engineering in the 21st Century	2
ENG101 Academic Writing and Research	4	<i>GEP Requirement *</i>	3
MA141 Calculus I	4	<i>Physical Ed/Healthy Living Elective *</i>	1
PE10 * Fitness and Wellness Course *	1		
Total Credits:	15	Total Credits:	16
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ISE135 Computer Modeling for Engineers	3	ECE331 Principles of Electrical Engineering	3
MSE200 Mechanical Properties of Structural Materials	3	ISE215 Design & 3D Modeling for Engineers	1
MA242 Calculus III	4	ISE216 Product Development & Rapid Prototyping	3
PY208 Physics for Engineers and Scientists II	4	MA303 Linear Analysis <sup>2</sup> (or MA 341)	3
ST371 Intro to Probability & Distribution Theory	3	ST372 Intro to Stat Inference & Regression	3
		<i>GEP Requirement *</i>	3
Total Credits:	17	Total Credits:	16
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ISE311 Engineering Economic Analysis	3	ISE352 Human-Machine System Design	3
ISE315 Computer-aided Manufacturing	1	ISE362 Stochastic Models in IE (CP)	3
ISE316 Manufacturing Engineering I: Processes	3	ISE443 Quality Control	3
ISE361 Deterministic Models in IE (CP)	3	<i>Technical Elective</i>	3
CE214 Engineering Mechanics-Statics <sup>3</sup> (or MAE 206)	3	<i>Engineering Science Elective<sup>4</sup></i>	3
<i>Ethics (GEP Requirement *)</i>	3		
Total Credits:	16	Total Credits:	15

SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ISE398 Lean Six Sigma for IE (NEW)	1	ISE498 / ISE521 Senior Design Project OR	3
ISE441 Intro to Simulation (CP)	3	Healthcare Systems Performance Improvement II	
ISE408 Design and Control of Production & Service Systems (CP)	3	(CP)	3
ISE453 Modeling and Analysis of Supply Chains (CP)	3	Technical Elective	3
ISE520 Healthcare Systems Performance Improvement I OR Technical Elective	3	GEP Requirement	3
ENG331 Technical Writing	3	GEP Requirement	2-3
		GEP Requirement	
Total Credits:	16	Total Credits:	14-15
Minimum Credit Hours Required for Graduation*: 124			

**Major/Program Footnotes:**

- 1) Economics: EC 205 OR EC 201 OR ARE 201
- 2) Mathematics: MA 303 OR MA 341
- 3) Statics: CE 214 OR MAE 201
- 4) Engineering Science Elective: CE 225, CE 282 (NEW), MSE 355 (NEW), MAE 201, MAE 208, MAE 214, MAE 308

**\*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:
- 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:
- E. **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)  
Choose from the University approved GEP Physical Education/Healthy Living course list.
- F. **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)  
\_\_\_\_\_ Humanities/Social Sciences/Visual and Performing Arts or \_\_\_\_\_ Mathematical Sciences/Natural Sciences/Engineering
- G. **Interdisciplinary Perspectives** (5-6 credit hours)  
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement:
- H. **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better )

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

- I. **U.S. Diversity** (USD)  
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- J. **Global Knowledge** (GK)  
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement:
- K. **Foreign Language proficiency** - Proficiency at the FL\_102 level is required for graduation.

MAJOR FIELD OF STUDY REQUIREMENTS:		
Required Courses/Groups/ Electives:	Credit Hours	GEP category, if applicable
<p>Indicate if course or course groupings have a C-wall or MGPA requirement and which are considered Critical Path courses – indicate with (CP) next to applic. course.</p>	69	List GEP category and hours satisfied by a Major requirement
<p>ISE135 Computer Modeling for Engineers 3</p> <p>ISE215 Design &amp; 3D Modeling for Engineers 1</p> <p>ISE216 Product Development &amp; Rapid Prototyping 3</p> <p>ISE311 Engineering Economic Analysis 3</p> <p>ISE315 Computer-aided Manufacturing 1</p> <p>ISE316 Manufacturing Engineering I: Processes 3</p> <p>ISE361 Deterministic Models in IE (CP) 3</p> <p>ISE352 Human-Machine System Design 3</p> <p>ISE362 Stochastic Models in IE (CP) 3</p> <p>ISE443 Quality Control 3</p> <p>ISE398 Lean Six Sigma for IE (NEW) 1</p> <p>ISE441 Intro to Simulation (CP) 3</p> <p>ISE408 Design and Control of Production &amp; Service Systems (CP) 3</p> <p>ISE453 Modeling and Analysis of Supply Chains (CP) 3</p> <p>ISE498 Senior Design Project 3</p> <p>MA242 Calculus III 3</p> <p>MA303 Linear Analysis<sup>2</sup> (or MA 341) 3</p> <p>MSE200 Mechanical Properties of Structural Materials 3</p> <p>ST371 Intro to Probability &amp; Distribution Theory 3</p> <p>ST372 Intro to Stat Inference &amp; Regression 3</p> <p>ECE331 Principles of Electrical Engineering 3</p> <p>CE214 Engineering Mechanics-Statics<sup>3</sup> (or MAE 206) 3</p> <p>Engineering Science Elective<sup>4</sup> 3</p> <p>ENG331 Technical Writing 3</p>		
<p><b>Concentration Courses/Groups/Electives:</b></p> <p>ISE 416, ISE 417, ISE 452, ISE 462, ISE 495, ST 430, ST 431, ST 432, MSE 445, MSE 465, MSE 485, MSE 545, MSE 565</p>	9	TECHNICAL ELECTIVES
<p><b>Free Electives:</b></p>	0	
<p><b>Total credit hours under Major Field of Study:</b> Minimum 27 hours required in program area.</p>	78 hours	
COLLEGE REQUIREMENTS:		



<b>Orientation Course(s):</b>		
<b>Other:</b>		
<b>Total credit hours under College Requirements:</b>	<b>Hours</b>	

<b><u>NCSU GENERAL EDUCATION PROGRAM REQUIREMENTS</u></b>  <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>  <b><i>Specific courses should not be listed in any of the fields below other than ENG 101.</i></b>		<b>At least one of the following must be listed:</b> 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 <b>X</b> 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.
<b>General Education Program Requirements:</b> <i>Minimum 39-40 hrs</i>	<b>Credit hours</b>	<b>How will the GEP requirement be met? (Choose applicable statement from 1-6 listed above)</b>
<b>Mathematical Sciences</b> (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.	8	(Choose statement 1, 2 or 3)
<b>Natural Sciences</b> (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.	8	(Choose statement 1, 2 or 3)
<b>English 101</b> (C- or better required) (4 credits)	4	ENG 101
<b>Humanities</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)
<b>Social Sciences</b> (6 credits) (Courses from two different disciplines) Course(s) in the Major may double-count to satisfy this requirement and also satisfy either the Global Knowledge or U.S. Diversity co-requisites.	6	(Choose statement 1, 2 or 3)
<b>Additional Breadth</b> (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)
<b>Interdisciplinary Perspectives</b> (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)
<b>Health and Exercise Studies</b> (2 credits) (Including one Fitness and Wellness course)	2	Choose course(s) from the University Approved GEP course list for this category.
<b>Total credit hours needed to complete GEP that are <u>not</u> satisfied as part of the Major/College requirements.</b>	42	
<b>GEP Co-Requisites:</b>		<b>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.</b>
<b>U.S. Diversity co-requisite</b> (USD)	n/a	(Choose statement 1 or 4)
<b>Global Knowledge co-requisite</b> (GK)	n/a	(Choose statement 1 or 4)
<b>Foreign Language Proficiency</b>	n/a	Proficiency at the FL_102 level required.

<b>The following requirements must be satisfied within the College/Program:</b>	4	Place an <b>X</b> in the credit hour box to indicate below that the requirement is <b>"Satisfied by College/Program Requirements"</b>
<b>Communication in the Major (Advanced Communication)</b>		Satisfied by College/Program Requirements
<b>Technology Fluency</b>		Satisfied by College/Program Requirements
<b>Total credit hours required to complete Degree:</b> Total must be within 120-128 credit hours.	<b>124</b>	<b>As applicable, indicate here the overall GPA requirement for degree completion including course completion.</b>