



UNC
COLLEGE OF
ARTS & SCIENCES

THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

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DATE: January 15, 2015
TO: Administrative Board, College of Arts and Sciences
FROM: Kevin Guskiewicz, Senior Associate Dean, Natural Sciences *KWG*
Terry Ellen Rhodes, Senior Associate Dean, Fine Arts and Humanities *TER*

Over the past four months, we have worked closely with the North Carolina School of Science and Math (NCSSM) to develop an articulation agreement between UNC-Chapel Hill and NCSSM. The agreement will provide NCSSM graduates the opportunity to receive academic credit as a UNC-Chapel Hill undergraduate student without having taken an advanced placement (AP) examination in select courses.

The faculty and department chairs in the respective UNC-Chapel Hill departments have been involved in the development of the articulation agreement. Abigail Panter, Senior Associate Dean for Undergraduate Education, Steve Farmer, Director of Admissions, and James Dean, Provost, were also consulted throughout the process. Collectively, we believe the articulation agreement will provide opportunities and eliminate redundancies for the approximately 125 seniors in each NCSSM graduating class who enroll at UNC-Chapel Hill. Under this agreement, most of these students would qualify for some articulation credit.

Faculty in the respective departments have reviewed course syllabi and confirmed that NCSSM's 400-449 level courses are at the level of introductory college courses in their departments. In most cases, the 450-499 courses deal with topics beyond those of introductory college courses. While some of these courses are classified as AP courses, not all students take the AP exam. Cost may be part of the reason, since each exam costs \$91, or \$57 for free/reduced lunch students. Additionally, some of the courses (e.g., Multivariable Calculus, Discrete Math, Statics [Engineering], Physics with Advanced Topics, Astrophysics) are clearly corresponding college courses, but have no AP exams.

We believe both institutions will benefit from the articulation agreement, and we ask that the Administrative Board consider approval of the attached articulation agreement. The proposed articulation agreement has been adapted from agreements already in place with several other North Carolina universities. These include the following schools and the year established:

- | | | |
|-----------------------------|------------------------------|----------------------------|
| Appalachian State (2010) | NC A&T (2010) | UNC Charlotte (2011) |
| East Carolina (2010) | NC Central (2010) | UNC Greensboro (2011) |
| Elizabeth City State (2011) | NC State (2009) | UNC Pembroke (2011) |
| Fayetteville State (2013) | Oglethorpe University (2009) | Western Carolina (2013) |
| Meredith College (2011) | UNC Asheville (2014) | Winston Salem State (2014) |

We appreciate your consideration of the proposed articulation agreement for implementation beginning with the incoming class (Fall 2015). We are available to respond to any questions or concerns that might be raised by members of the Administrative Board.

University of North Carolina-Chapel Hill

And

The North Carolina School of Science and Mathematics

Articulation Agreement

This document, when signed by all parties, serves as a formal agreement between the University of North Carolina-Chapel Hill (hereinafter UNC-CH) and the North Carolina School of Science and Mathematics (hereinafter NCSSM). All conditions of the agreement must be met before students may apply for credit with UNC-CH.

General Conditions

1. This Articulation Agreement is in perpetuity or until it is cancelled by either educational partner by submitting written notification to the other partner one year prior to the identified cancellation date in order to protect all students from NCSSM that have applied or been admitted to UNC-CH prior to the cancellation date. In addition, cancellation shall not be applied retroactively, i.e. students who have already received credit for course substitutions would not lose the credit for those substitutions.
2. Amendments to this agreement require approval by both parties.
3. The courses of study subject to this agreement may be expanded from time to time by addendum mutually agreeable to both parties.
4. Faculty employed by NCSSM must meet stated professional credential requirements set forth by the Southern Association of Colleges and Schools which govern the acceptability of course work taught and accepted for transfer credit by colleges and universities.
5. NCSSM must submit a course portfolio to include, but not limited to, examinations and other course documents, for review by UNC-CH annually or upon request.
6. NCSSM will provide an opportunity for UNC-CH faculty to observe course instruction.
7. Students must apply for admission and be admitted to UNC-CH in order to apply for articulated credit as outlined in this agreement.
8. Students will be granted credit based on the course equivalencies and related requirements listed in this agreement. Students will be granted credit only—no grade will be issued. It is

required, however, that students have received a grade of B or above in the NCSSM course for which UNC-CH credit is being granted. (Note: grades of B- in NCSSM courses are not acceptable.)

9. Upon acceptance to UNC-CH, students must have their final transcript sent to the Office of Undergraduate Admissions for articulation of the appropriate credits. This should take place before the student registers to eliminate any problems with course credit.

By signature below, the University of North Carolina-Chapel Hill and the North Carolina School of Science and Mathematics affirm that course equivalencies in Appendix I may be articulated as transfer credit beginning in the 2015 Fall Semester, provided that all conditions of this agreement are met. The signature of each Department Chair signifies their agreement in the Appendix as it applies to their content area only.

James W. Dean, Jr.
Provost, UNC-CH

Stephen J. Warshaw
Vice Chancellor of Academic Programs,
NCSSM

APPENDIX

ARTICULATION AGREEMENT

UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL & THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS

BIOLOGY

| NCSSM COURSE(S) | CONDITION(S) | UNC-CH COURSE |
|---|---|--|
| BI434 (AP Biology (I)) + BI436 (AP Biology (II)) + BI438 (AP Biology (III)) | Grade of B or above in each NCSSM Course | BIOL101 (Principles of Biology) + BIOL101L (Principles of Biology Lab) |

Amy Sheck
Dean of Science, NCSSM

Kevin Guskiewicz
Senior Associate Dean, Natural Sciences,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

Victoria Bautch
Chair, Department of Biology, UNC-CH

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UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL & THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS

CHEMISTRY

| NCSSM COURSE(S) | CONDITION(S) | UNC-CH COURSE |
|---|---|--|
| CH401 (AP Chemistry (I)) + CH402 (AP Chemistry (II)) | Grade of B or above in each NCSSM Course | CHEM 101 (General Descriptive Chemistry I) + CHEM 101L (Quantitative Chemistry Laboratory I) + CHEM 102 (General Descriptive Chemistry II) + CHEM 102L (Quantitative Chemistry Laboratory II) |
| CH405 (AP Chemistry (Advanced I)) + CH406 (AP Chemistry (Advanced II)) | Grade of B or above in each NCSSM Course | CHEM 101 (General Descriptive Chemistry I) + CHEM 101L (Quantitative Chemistry Laboratory I) + CHEM 102 (General Descriptive Chemistry II) + CHEM 102L (Quantitative Chemistry Laboratory II) |
| CH424 (Chemistry Advanced Online) + CH426 (AP Chemistry Online) | Grade of B or above in each NCSSM Course | CHEM 101 (General Descriptive Chemistry I) + CHEM 101L (Quantitative Chemistry Laboratory I) + CHEM 102 (General Descriptive Chemistry II) + CHEM 102L (Quantitative Chemistry Laboratory II) |

Amy Sheck
Dean of Science, NCSSM

Kevin Guskiewicz
Senior Associate Dean, Natural Sciences,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

Valerie Ashby
Chair, Department of Chemistry, UNC-CH

**PROPOSED ARTICULATION AGREEMENT
 UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL
 &
 THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS
 ENVIRONMENTAL SCIENCE**

| NCSSM Courses | CONDITION(S) | UNC-CH COURSE |
|--|---|--|
| BI424 (AP Environmental Science (I)) + BI426 (AP Environmental Science (II)) | Grade of B or above in each NCSSM course | <u>Course – under development</u> ENEC 101 Intro to Environmental Studies and Sciences (not available in 2015/16) |

Amy Sheck
 Dean of Science, NCSSM

Kevin Guskiewicz
 Senior Associate Dean, Natural Sciences,
 UNC-CH

Abigail Panter
 Senior Associate Dean, Undergraduate Education,
 UNC-CH

Jaye Cable
 Chair, Curriculum in Environment and
 Ecology, UNC-CH

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UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL & THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS

MATHEMATICS

| NCSSM COURSE(S) | CONDITION(S) | UNC-CH COURSE |
|--|---|--|
| MA480 (Vector Functions and Partial Derivatives) + MA482 (Multiple Integrals and Vector Fields) | Grade of B or above in each NCSSM Course | MATH 233 (Calculus Of Functions Of Several Variables) |
| MA484 (Applications of Calculus) + MA486 (Partial Derivatives and Vector Fields) | Grade of B or above in each NCSSM Course | MATH 233 (Calculus Of Functions Of Several Variables) |
| MA420 (AP Calculus BC (I): Contemporary Calculus) + MA422 (AP Calculus BC (II): Contemporary Calculus) + MA424 (AP Calculus BC III: Contemporary Calculus) | Grade of B or above in each NCSSM Course | MATH 231 (Calculus Of Functions Of One Variable I) + MATH 232 (Calculus Of Functions Of One Variable II) |
| MA416 (AP Calculus AB) + MA426 (AP Calculus BC) | Grade of B or above in each NCSSM Course | MATH 231 (Calculus Of Functions Of One Variable I) + MATH 232 (Calculus Of Functions Of One Variable II) |
| MA432 (AP Calculus BC (Advanced Topics II): Contemporary Calculus) + MA434 (AP Calculus BC (Advanced Topics III): Contemporary Calculus) | Grade of B or above in each NCSSM Course | MATH 231 (Calculus Of Functions Of One Variable I) + MATH 232 (Calculus Of Functions Of One Variable II) |

Donita Robinson
Dean of Mathematics, NCSSM

Kevin Guskiewicz
Senior Associate Dean, Natural Sciences,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

Richard McLaughlin
Chair, Department of Mathematics, UNC-CH

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PHYSICS

| NCSSM COURSE(S) | CONDITION(S) | UNC-CH COURSE |
|--|---|---|
| PH403 (AP Physics B (Web)) | Grade of B or above in each NCSSM Course | PHYS 116 (Mechanics) + PHYS 117 (Electromagnetism) |
| PH404 (AP Physics C: Mechanics (I)) + PH406 (AP Physics C: Mechanics (II) and Electricity and Magnetism (I)) + PH408 (Electricity and Magnetism (II)) | Grade of B or above in each NCSSM Course | PHYS 118 (Introductory Calculus-based Mechanics and Relativity) |
| PH418 (Astrophysics) + PH420 (Galaxies and Cosmology) | Grade of B or above in each NCSSM Course | ASTR 101 (Introduction to Astronomy: The Solar System) + ASTR 102 (Introduction to Astronomy: Stars, Galaxies, and Cosmology) |

Amy Sheck
Dean of Science, NCSSM

Kevin Guskiewicz
Senior Associate Dean, Natural Sciences,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

J. Christopher Clemens
Chair, Department of Physics and
Astronomy, UNC-CH

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STATISTICS

| NCSSM COURSE(S) | CONDITION(S) | UNC-CH COURSE |
|--|---|--|
| MA404 (AP Statistics (I)) + MA406 (AP Statistics (II)) + MA408 (AP Statistics (III)) | Grade of B or above in each NCSSM Course | STOR 155 (Introductory Statistics) OR STOR 151 (Basic Concepts of Statistics and Data Analysis) |

Donita Robinson
Dean of Mathematics, NCSSM

Kevin Guskiewicz
Senior Associate Dean, Natural Sciences,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

Amarjit Budhiraja
Chair, Department of Statistics and
Operations Research, UNC-CH

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FRENCH

| NCSSM COURSES | CONDITIONS | UNC-CH COURSE(S) |
|--|--|--|
| FR404 Modern French Readings and Media (I) + FR406 Modern French Readings II and Media (II) + FR408 Modern French Readings and Media (III) | Grade of B or above in each NCSSM course | FREN 260 Introduction to French Literature |

Elizabeth Moose
Dean of Humanities, NCSSM

Terry Rhodes
Senior Associate Dean, Humanities,
UNC-CH

Abigail Panter
Senior Associate Dean, Undergraduate Education,
UNC-CH

Federico Luisetti
Chair, Department of Romance Studies,
UNC-CH

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LATIN

| NCSSM COURSES | CONDITIONS | UNC-CH COURSE(S) |
|---|---|--------------------------------|
| LA 404 Advanced Latin Poetry (I) + LA 406 Advanced Latin Poetry (II) + LA 408 Advanced Latin Poetry (III) | Grade of B or above in each NCSSM course | LATN 204 Intermediate Latin II |
| LA 410 Advanced Latin Prose (I) + LA 412 Advanced Latin Prose (II) + LA 414 Advanced Latin Prose (III) | Grade of B or better in each NCSSM course | LATN 203 Intermediate Latin I |

Elizabeth Moose
Dean of Humanities, NCSSM

Terry Rhodes
Senior Associate Dean, Humanities,
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Abigail Panter
Senior Associate Dean, Undergraduate Education,
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James Rives
Chair, Department of Classics,
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THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS**

SPANISH

| NCSSM COURSES | CONDITIONS | UNC-CH COURSE(S) |
|---|--|---|
| SP 454 Advanced Readings in Spanish (I) + SP 456 Advanced Readings in Spanish (I) + SP 458 Advanced Readings in Spanish (I) | Grade of B or above in each NCSSM course | SPAN 260 Intro to Spanish and Spanish American Literature |

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Federico Luisetti
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