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## North Carolina State University

And

## The North Carolina School of Science and Mathematics

### **Articulation Agreement**

This document, when signed by all parties, serves as a formal agreement between North Carolina State University (hereinafter NCSU) 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 NCSU.

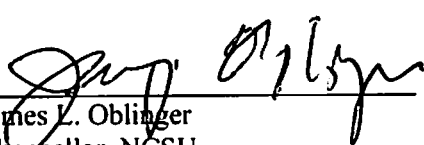
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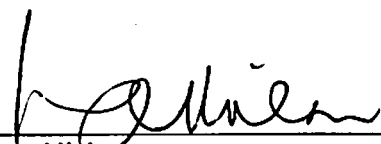
#### General Conditions

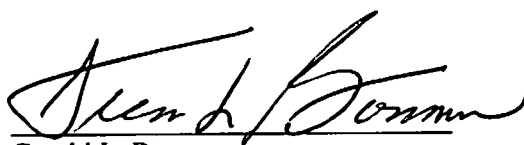
1. The term of the agreement is one year effective the 15<sup>th</sup> day of May, 2009 and it may be renewed upon approval by both parties.
2. Amendments to this agreement require approval by both parties.
3. The courses of study subject to this agreement may be expanded from time to time by addendum mutually agreeable to both parties.
4. This agreement may be cancelled with thirty (30) days written notice by either party.
5. 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.
6. NCSSM must submit a course portfolio to include, but not limited to, examinations and other course documents, for review by NCSU annually or upon request.
7. NCSSM will provide an opportunity for NCSU faculty to observe course instruction.
8. Students must apply for admission and be admitted to NCSU in order to apply for articulated credit as outlined in this agreement.
9. 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 NCSU credit is being granted. (Note: grades of B- in NCSSM courses are not acceptable.)

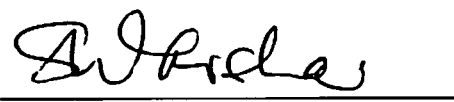
10. Upon acceptance to NCSU, students must have their final transcript sent to the Office of Undergraduate Admissions for articulation of the appropriate credits. This should take place before the student registers to eliminate any problems with course credit.
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By signature below, North Carolina State University 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 2009 Fall Semester, provided that all conditions of this agreement are met. The signature of each Division Chair signifies their agreement in Appendix I as it applies to their content area only.

  
James L. Oblinger  
Chancellor, NCSU

  
Larry A. Nielsen  
Provost, NCSU

  
Gerald L. Boarman  
Chancellor, NCSSM


  
Stephen J. Warshaw  
Vice Chancellor of Academic Programs,  
NCSSM

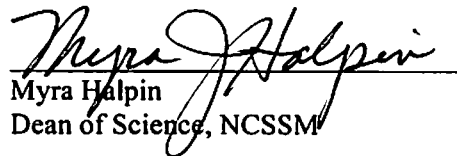
**APPENDIX**

**PROPOSED ARTICULATION AGREEMENT  
NORTH CAROLINA STATE UNIVERSITY &  
THE NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS**

**BIOLOGY**

NCSSM COURSE(S)	CONDITION(S)	NCSU COURSE(S)
BI434 (AP Biology (I)) + BI436 (AP Biology (II)) + BI438 (AP Biology (III))	Grade of B or above in each NCSSM Course	BIO181 (Introductory Biology: Ecology, Evolution, and Biodiversity) + BIO183 (Introductory Biology: Cellular and Molecular Biology)

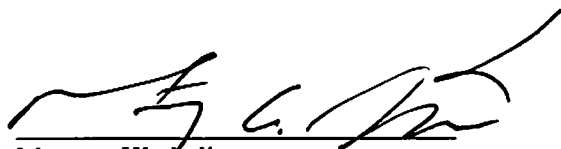
  
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Damian Shea  
Head, Department of Biology, NCSU

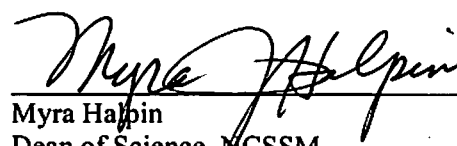
  
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Myra Halpin  
Dean of Science, NCSSM

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**CHEMISTRY**

NCSSM COURSE(S)	CONDITION(S)	NCSU COURSE(S)
<p style="text-align: center;">CH401 (AP Chemistry (I)) + CH402 (AP Chemistry (II))</p>	<p style="text-align: center;">Grade of B or above in each NCSSM Course</p>	<p style="text-align: center;">CH101 (Chemistry - A Molecular Science) + CH102 (General Chemistry Laboratory) + CH201 (Chemistry - A Quantitative Science) + CH202 (Quantitative Chemistry Laboratory)</p>
<p style="text-align: center;">CH403 (AP Chemistry (Web))</p>	<p style="text-align: center;">Grade of B or above in each NCSSM Course</p>	<p style="text-align: center;">CH101 (Chemistry - A Molecular Science) + CH102 (General Chemistry Laboratory) + CH201 (Chemistry - A Quantitative Science) + CH202 (Quantitative Chemistry Laboratory)</p>
<p style="text-align: center;">CH405 (AP Chemistry (Advanced I)) + CH406 (AP Chemistry (Advanced II))</p>	<p style="text-align: center;">Grade of B or above in each NCSSM Course</p>	<p style="text-align: center;">CH101 (Chemistry - A Molecular Science) + CH102 (General Chemistry Laboratory) + CH201 (Chemistry - A Quantitative Science) + CH202 (Quantitative Chemistry Laboratory)</p>

  
Morteza Khaledi  
Chair, Department of Chemistry, NCSU


  
Myra Halpin  
Dean of Science, NCSSM

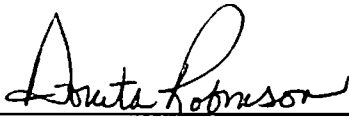
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**MATHEMATICS**

NCSSM COURSE(S)	CONDITION(S)	NCSU COURSE(S)
MA480 (Vector Functions and Partial Derivatives) + MA482 (Multiple Integrals and Vector Fields)	Grade of B or above in each NCSSM Course	MA242 (Calculus III)
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	MA141 (Calculus I) + MA241 (Calculus II)
MA430 (AP Calculus BC (Advanced Topics I): Contemporary Calculus) + 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	MA141 (Calculus I) + MA241 (Calculus II)
MA466 (Graph Theory and Networks) + MA464 (Combinatorics and Game Theory)	Grade of B or above in each NCSSM Course	MA416 (Introduction to Combinatorics)

The two institutions will explore NCSU course equivalencies for NCSSM's MA454 and MA462 for students who enter NCSU in Summer/Fall 2010.

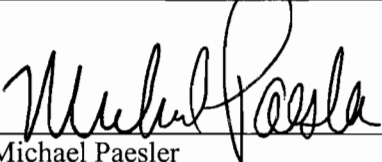
  
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Aloysius Helminck  
Head, Department of Mathematics, NCSU

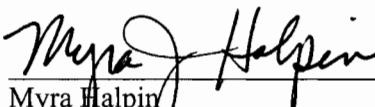
  
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Donita Robinson  
Dean of Mathematics, NCSSM

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**PHYSICS\***

NCSSM COURSE(S)	CONDITION(S)	NCSU COURSE(S)
PH352 (Physics with Advanced Topics I) + PH354 (Physics with Advanced Topics II)	Grade of B or above in each NCSSM Course	PY211 (College Physics I)
PH403 (AP Physics B (Web))	Grade of B or above in each NCSSM Course	PY211 (College Physics I) + PY212 (College Physics II)
PH405 (AP Physics C: Mechanics) + PH406 (AP Physics C: Electricity and Magnetism)	Grade of B or above in each NCSSM Course	PY201 (University Physics I) + PY202 (University Physics II)  <u>OR</u>  PY205 (Physics for Engineers and Scientists I) + PY208 (Physics for Engineers and Scientists II)
PH418 (Astrophysics) + PH420 (Galaxies and Cosmology)	Grade of B or above in each NCSSM Course	PY123 (Stellar and Galactic Astronomy) + PY125 (Astronomy Laboratory)

  
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Michael Paesler  
Head, Department of Physics, NCSU

  
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Myra Halpin  
Dean of Science, NCSSM

\*Revised February 27, 2009

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**STATISTICS**

NCSSM COURSE(S)	CONDITION(S)	NCSU COURSE(S)
MA404 (AP Statistics (I)) + MA406 (AP Statistics (II)) + MA408 (AP Statistics (III))	Grade of B or above in each NCSSM Course	ST 311 (Introduction to Statistics)
MA440 (AP Statistics (Advanced Topics I)) + MA442 (Statistics (Advanced Topics II)) + MA444 (AP Statistics (Advanced Topics III))	Grade of B or above in each NCSSM Course	ST 370 (Probability and Statistics for Engineers)

*Sastry G. Pantula*

Sastry Pantula  
Head, Department of Statistics, NCSU

*Donita Robinson*

Donita Robinson  
Dean of Mathematics, NCSSM