

**2008-2009 60 + 60 TRANSFER GUIDE
PHYSICS: MATHEMATICAL PHYSICS
UNIVERSITY OF NORTHERN COLORADO**

Section I: Degree/Program Requirements

A. Institutional graduation requirements for this degree program.

The graduation requirement for a transfer student pursuing Physics: Mathematical Physics will be no different than the graduation requirements for a native student, including the minimum number of semester hours required for graduation requirements. Specifically, the student must meet the following requirements.

- Complete at least 120 credit hours, and
- Successfully complete the required 57 credit hours in the major, with a grade of "C" or higher in all PHYS courses and
- Earn at least a 2.00 GPA in courses completed at UNC.

B. Required courses in Major, including pre-requisites and required Support courses in the chart below.

COMMUNITY COLLEGE REQUIRED COURSES: Required courses to be taken as part of AS degree to guarantee the completion of a baccalaureate degree in 60 additional credits after transfer. Required Courses: 29 credits

| UNC | CC |
|----------|--|
| CHEM 111 | Che 111 General College Chemistry I |
| MATH 131 | Mat 201 Calculus I (5) |
| MATH 132 | Mat 202 Calculus II (5) |
| MATH 233 | Mat 203 Calculus III (4) |
| PHYS 240 | Phy 211 Physics: Calculus Based I (5) |
| PHYS 241 | Phy 212 Physics: Calculus Based II (5) |

PHYSICS: MATHEMATICAL PHYSICS

| | UNC Course Number | UNC Course Name | UNC CH | CC Course Number | CC Course Name | CC CH |
|------------------------------------|--|--|-----------|------------------|------------------------|-------|
| Required Major Courses | | | 35 | | | |
| | PHYS 301 | Seminar in Physics | 1 | | | |
| | PHYS 320 | Mathematical Methods I | 3 | | | |
| | PHYS 321 | Elementary Modern Physics | 4 | | | |
| | PHYS 340 | Mechanics | 4 | | | |
| | PHYS 341 | Electricity and Magnetism | 4 | | | |
| | PHYS 345 | Quantum Mechanics I | 3 | | | |
| | PHYS 360 | Laboratory Physics I | 2 | | | |
| | PHYS 370 | Research I | 1-3 | | | |
| | PHYS 420 | Mathematical Methods II | 3 | | | |
| | PHYS 440 | Thermodynamics and Statistical Mechanics | 4 | | | |
| | PHYS 445 | Quantum Mechanics II | 3 | | | |
| | PHYS 460 | Laboratory Physics II | 2 | | | |
| | PHYS 470 | Research II | 1-3 | | | |
| Elective Major Credits | | | 4 | | | |
| | Elective Credits in Physics (consent of advisor) | | 4 | | | |
| Required Supporting Credits | | | 18 | | | |
| | CS 102 | Structured Programming | 3 | | | |
| | MATH 335 | Differential Equations I | 3 | Mat 265 | Differential Equations | 3 |
| | MATH 221 | Elementary Linear Algebra | 3 | Mat 255 | Linear Algebra | 3 |
| | MATH 460 | Intro to Complex Analysis | 3 | | | |

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|--|-----------|--|--|--|
| Elective Credits in Mathematics (consent of advisor) | 6 | | | |
| TOTAL MAJOR REQUIREMENTS | 57 | | | |
| University Electives | 3 | | | |
| GRADUATION REQUIREMENTS beyond AA/AS degree | 60 | | | |
| ASSOCIATE OF ARTS/SCIENCE DEGREE | 60 | | | |
| TOTAL GRADUATION REQUIREMENTS | 120 | | | |

Section II: Transfer of Credit

- A. Grade Eligibility.
Only academic courses with a letter grade of C or better are transferable. The four-year institution will accept and count toward meeting graduation requirements all state guaranteed general education courses that have a grade of C or better.
- B. UNC accepts some scores of 3 and accepts scores of 4 and above on Advanced Placement tests and scores of 4 and above earned on International Baccalaureate tests.
<http://www.unco.edu/admissions/advanced-placement.asp>
<http://www.unco.edu/admissions/international-baccalaureate.asp>
- C. UNC will accept all approved credits earned with ten years of transfer. Courses earned more than ten years earlier may be evaluated on an individual basis.
- D. UNC may apply state guaranteed general education (gtP) courses toward the major or other graduation requirements if that facilitates the student's graduation more effectively.

Section III: Appeal Process

- A. Institutional Appeal Process
Students who follow this agreement shall have the right to appeal a transfer decision that appears to be inconsistent with the terms and courses listed in this agreement. Appeals pertaining to this 2008-2009 Transfer Guide should be filed with the institution. A student may file an appeal that pertains to state guaranteed general education courses directly to Admissions: Leta.Naber@unco.edu or Barbara.Nelson@unco.edu
- B. State Appeal
For information on the student appeal process, refer to Student Appeal Policy at <http://higher.ed.colorado.gov/Publications/Policies/Current/i-partt.pdf>