

ASSOCIATE IN SCIENCE
Study Track: PRE-MEDICINE, PRE-DENTAL, PRE-VETERINARY,
PRE-OPTOMETRY

Revised Spring Semester 2010

*The faculty at Durham Tech recommends the following courses to prepare for admission to programs leading to careers in medicine, dentistry, veterinary medicine, or optometry. You should be aware that universities do not offer majors with titles such as Pre-medicine. Rather, the courses listed here will lead you to an Associate in Science degree that you can then apply toward satisfying the requirements for many different science majors at a four-year university. These recommendations are based on both the minimal admission requirements as well as other studies desired by most health-profession schools. **This agreement is meant as a guide and the student should not assume that it addresses unique requirements set by his or her university of choice. It is the student's responsibility to become aware of individual requirements of the senior institution and to make course substitutions as warranted, within the requirements of the AS Plan-of-Study.***

General Education Core (46-47 SHC): 46-47 semester hours of credit (SHC) in general education core courses are required as outlined by the North Carolina Community College Curriculum Standards for Associate in Science degree programs. Students who complete the General Education Core requirements exclusively at public colleges or universities in North Carolina or at private colleges that have signed on to the Comprehensive Articulation Agreement will be able to transfer the set of courses as a package. The General Education core includes study in the areas of English composition, humanities and fine arts, social and behavioral sciences, natural sciences and mathematics.

English Composition (6 SHC):

- ENG 111 (3 SHC)—Expository Writing
- ENG 113 (3 SHC)—Literature-Based Research

Humanities and Fine Arts (9 SHC):

- One English literature course (3 SHC) selected from—ENG 231, 232, 233, 241, 242, 243, 251, 252, 261, 262
- *SPA 112 (3 SHC)—Elementary Spanish II (*Must be taken with the accompanying lab – see Other Required Hours below*)
- PHI 240 (3 SHC)—Introduction to Ethics

**Other foreign Languages are acceptable. Durham Tech offers Arabic, French, German, Italian, Portuguese, and Spanish. Students graduating from UNC-CH are required to complete Intermediate Foreign Language I.*

Social and Behavioral Sciences (9 SHC):

- One history course (3 SHC) selected from—HIS 111, 112, 121, 122
- PSY 150 (3 SHC)—General Psychology
- One course (3 SCH) selected from the following list—ANT 210, 220; ECO 251, 252; GEO 111, 112; POL 120, 220; PSY 241, 281; SOC 210, 213, 220, 225

Natural Science and Mathematics (22-23 SHC):

Natural Science (16 SHC):

- BIO 111 (4 SHC)—General Biology I
- BIO 130 (4 SHC)—Introductory Zoology
- CHM 151 (4 SHC)—General Chemistry I
- CHM 152 (4 SHC)—General Chemistry II

Mathematics (6-7 SHC):

- MAT 151(3 SHC)—Statistics I
 - MAT 263 (3 SHC)—Brief Calculus (*Offered fall evening only*) or MAT 271 (4 SHC)—Calculus I (*Offered fall and spring only*) (*Students must take the accompanying lab for MAT 263—see Other Required Hours in Natural Science/ Mathematics below*)
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PRE-MEDICINE, PRE-DENTAL, PRE-VETERINARY, PRE-OPTOMETRY, Continued

ELECTIVES: To complete the Associate in Science degree a student must complete a total of 64-65 semester hours. Sixty-four credit hours are guaranteed to transfer. Transfer of credit hours beyond the 64th is not guaranteed. If the student completes the AS degree, then electives transfer as a package. If the degree is not completed then the electives transfer on a course-by-course basis and it is the student's responsibility to address individual requirements at the university. The additional 21-23 hours beyond the General Education Core are recommended as follows:

Natural Science/Mathematics Electives (11-12 SHC)—Twelve semester hours of mathematics and science electives selected from the following list of courses:

- CHM 251 (4 SHC)—Organic Chemistry I (*Offered fall only*)
- CHM 252 (4 SHC)—Organic Chemistry II (*Offered spring only*)
- PHY 151 (4 SHC)—College Physics I (*Offered fall only*) or PHY 251* (4 SHC)—General Physics I (*Offered spring only*)
- PHY 152 (4 SHC)—College Physics II (*Offered spring only*) or PHY 252* (4 SHC)—General Physics II (*Offered fall only*)

*Indicates courses that have MAT 271 as a mathematics prerequisite.

Other Elective Hours Required* for Graduation (7-10 SHC):

- CAPSTONE COURSE (*This course may be used to satisfy hours in the Natural Science/Mathematics Electives*): BIO 140 (3 SHC)—Environmental Biology
- ACA 122 (1 SCH)—College Transfer Success
- Demonstration of computer competence by completion of CIS 110 (3 SHC)—Introduction to Computers or CIS 115—Introduction to Programming and Logic or satisfactory score on computer competency test
- MAT 263A (1 SHC) – Brief Calculus Lab (*If Brief Calculus selected*)
- One physical education course (1 SHC) selected from—PED 111, 113, 120, 121, 128, 130, 139, 142, 143, 145, 148, 162, 183, 186
- SPA 182 (1 SHC) – Spanish II Lab

* Students entering this study track must demonstrate competency in or complete the prerequisites for foreign language and MAT 263 or 271.

The colleges and universities that offer this major:

To identify the public universities offering this major, go to the web site

<http://ias.ga.unc.edu/%7Epassess/acrobat/apibyprog.pdf> or
www.northcarolina.edu/content.php/aa/planning/traditional.htm .

To identify the private colleges and universities offering this major, go to the web site

<http://www.northcarolina.edu/content.php/assessment/reports/publications/api.htm> .

Universities allow, at most, 64 hours of credit to transfer. However, there are situations where more than 64 hours can be completed at the community college. Please consult with an advisor to find out what those situations are.

Durham Technical Community College awards the Transfer Core Diploma. The Transfer Core Diploma confirms that students have completed all their General Education Core requirements under an A.A. or A.S. degree program. Core completion certifies that a student has met all the lower-division General Education Requirements of the receiving senior institution and has met the Minimum Course Requirements (MCRs) for admission to the University of North Carolina System. Students need to apply for the Diploma once they have completed the Core of their respective Plan of Study. Forms are available in Admissions in the Wynn Center.