

# Associate in Engineering A10500

## 2015FA-2016SU Local Advising Check Sheet

Final graduation verification will be completed in the Records office using the state level approved Program of Study.

<b>GENERAL EDUCATION (42 SHC)</b> The general education common course pathway includes study in the areas of English composition; humanities and fine arts; social and behavioral sciences; natural sciences and mathematics.		
<b>UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (UGETC)</b> (All Universal General Education Transfer Component courses will transfer for equivalency credit to UNC Universities.) <b>UGETC courses are listed in bold.</b> Non-UGETC courses are in italics on this page.		
<b>English Composition (6 SHC)</b> The following two English composition courses are required.		
	Semester Hours	Credit
<b>ENG 111 Writing &amp; Inquiry</b>		(3)
<b>ENG 112 Writing/Research in the Disciplines</b>		(3)
<b>Humanities/Fine Arts and Communication (6 SHC)</b> Select one course from each category.		
<b>Humanities: Select one.</b>		
<b>ENG 231 American Literature I</b>		(3)
<b>ENG 232 American Literature II</b>		(3)
<b>PHI 215 Philosophical Issues</b>		(3)
<b>PHI 240 Introduction to Ethics</b>		(3)
<i>REL 110 World Religions</i>		(3)
<b>Fine Arts and Communication: Select one.</b>		
<b>COM 231 Public Speaking</b>		(3)
<b>ART 111 Art Appreciation</b>		(3)
<b>ART 114 Art History Survey I</b>		(3)
<b>ART 115 Art History Survey II</b>		(3)
<b>MUS 110 Music Appreciation</b>		(3)
<b>MUS 112 Introduction to Jazz</b>		(3)
<b>Social/Behavioral Sciences (6 SHC)</b> Select one course from each category.		
Required course:		
<b>ECO 251 Principles of Microeconomics</b>		(3)
Select one:		
<b>HIS 111 World Civilizations I</b>		(3)
<b>HIS 112 World Civilizations II</b>		(3)
<b>HIS 131 American History I</b>		(3)
<b>HIS 132 American History II</b>		(3)
<b>POL 120 American Government</b>		(3)
<b>PSY 150 General Psychology</b>		(3)
<b>SOC 210 Introduction to Sociology</b>		(3)
<b>Mathematics (12 SHC)</b> <i>Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as math credit. Students who are not calculus-ready will need to take additional math courses.</i>		
Required courses:		
<b>MAT 271 Calculus I</b>		(4)
<i>MAT 272 Calculus II</i>		(4)
<i>MAT 273 Calculus III</i>		(4)
<b>Natural Sciences (12 SHC)</b> Required courses:		
<b>CHM 151 General Chemistry I</b>		(4)
<b>PHY 251 General Physics I</b>		(4)
<b>PHY 252 General Physics II</b>		(4)

## OTHER REQUIRED HOURS (18 SHC)

### Academic Transition (1 SHC)

Required course:

ACA 122 *College Transfer Success* (1)

### Pre-major/Elective (2 SHC)

Required Course:

EGR 150 *Intro to Engineering* (2)

### Other General Education and Pre-major/Elective Hours (15 SHC)

Select 15 SHC of courses from the following courses classified as pre-major, elective or general education courses within the Comprehensive Articulation Agreement. Students should choose courses appropriate to the specific university and engineering major requirements. **Courses listed below may not be offered at Forsyth Tech every semester.**

BIO 111	General Biology I	(4)
CHM 152	General Chemistry II	(4)
COM 110	Introduction to Communication	(3)
CSC 134	C++ Programming	(3)
CSC 151	JAVA Programming	(3)
DFT 170	Engineering Graphics	(3)
ECO 252	Principles of Macroeconomics	(3)
EGR 210	Introduction to Electrical/Computer Engineering Lab	(2)
EGR 212	Logic System Design I	(3)
EGR 215	Network Theory I	(3)
EGR 216	Logic and Network Lab	(1)
EGR 220	Engineering Statistics	(3)
EGR 225	Engineering Dynamics	(3)
EGR 228	Introduction to Solid Mechanics	(3)
HUM 110	Technology and Society	(3)
MAT 280	Linear Algebra	(3)
MAT 285	Differential Equations	(3)
PED 110	Fitness and Wellness for Life	(2)
WBL 111	(Students may qualify for work-based learning; see your advisor for details.)	(1)

### TOTAL CREDIT HOURS IN PROGRAM: 60

(Minimum of 60 SHC required to graduate.)

\*\*\*\*Students must meet the receiving university's foreign language and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.\*\*\*\*

10/8/15 SSC-ACS A10500 AE

*It is strongly recommended that students be Calculus-ready prior to beginning this Program of Study!*