

## *Northeast Alabama Community College*

In December, the State Board of Education and the Alabama Commission on Higher Education approved Northeast Alabama Community College's application for a new instructional program. A short-term certificate (STC), Certificate (CER) and Associate in Applied Science (AAS) in Engineering Technician will be offered beginning Fall 2011.

Preliminary requirements for this program are attached. However, some changes may be made to assure congruence with industry certification requirements. For that reason, those who wish to begin classes in advance of the official Fall 2011 start-up should consider taking the following courses:

ENG 101	English Composition I	3 hours
SPH 107	Fundamentals of Public Speaking	3 hours
Area II	ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	3 hours
MTH 100	Intermediate College Algebra	3 hours
WKO 106	Workplace Skills	3 hours
INT 119	Principles of Mechanical Measurement & Technical Drawing	3 hours
CIS 146	Microcomputer Applications	3 hours
Area IV Elective	History, Social or Behavioral Science Elective	3 hours

Any questions should be directed to:

Office of Workforce Development

(256) 228-6001, ext. 254

**REQUIREMENTS ARE TENTATIVE AND SUBJECT TO CONSIDERABLE REVISION BEFORE FINALIZED.**

# Northeast Alabama Community College

**PRELIMINARY REQUIREMENTS –  
FINAL REQUIREMENTS WILL BE RELEASED IN THE 2011-12 COLLEGE CATALOG.**

## Associate in Applied Science Engineering Technician

### General Education Requirements

All students must complete.

#### *Area I*

ENG 101	English Composition I	3
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#### *Area II*

SPH 107	Fundamentals of Public Speaking	3
	Humanities & Fine Arts Elective	3

#### *Area III*

MTH 100	Intermediate College Algebra	3
	Select 8 hours from the following:	8
	PHS, PHY, CHM	

#### *Area IV*

	Area IV Elective	3
	General Education Requirements	23

#### *Area V*

### Technical Core

All students must complete.

EGR 101	Engineering Foundations	3
WKO 106	Workplace Skills	3
INT 119	Principles of Mechanical Measurement & Technical Drawing	3
CIS 146	Microcomputer Applications	3
ENT 242	Advanced Studies in Engineering Tech.	3
MTH 116	Mathematical Applications	3
	Technical Core Requirements	18

#### *Area V*

<u>Program Option</u>		21 (by advisement)
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Students must complete one of the following program options.

### ***Industrial Engineering Technician*** **21 (by advisement)**

QCT, PMC, EGR, ENT, EVT, ATM		12
QCT, PMC, PHS, PHY, MTH, EGR, ENT, CHM		
ATM, NDT		9

### ***Electrical Mechanical Engineering Technician*** **21 (by advisement)**

INT, ILT, EGR, ENT		15
Additional courses from ILT, INT, PHY, PHS, EGR, ENT, MTH, DDT		6

### ***Energy & Conservation*** **21 (by advisement)**

REN, NUC, EGR, ENT, PMC, ATM, NDT		12
Additional courses from REN, NUC, EGR, ENT, PMC, ATM, NDT, CHM, PHY, MTH		9

<b>TOTAL HOURS REQUIRED FOR AAS DEGREE</b>	<b>62</b>
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**REQUIREMENTS ARE TENTATIVE AND SUBJECT TO CONSIDERABLE REVISION BEFORE FINALIZED.**

**Certificate  
Engineering Technician**

General Education Requirements

All students must complete.

*Area I*

ENG 101	English Composition I	3
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*Area II*

SPH 107	Fundamentals of Public Speaking	3
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*Area III*

MTH 100	Intermediate College Algebra	3
	Select 4 hours from the following: PHS, PHY, CHM	4

*Area IV*

	No requirement	0
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General Education Requirements		13
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*Area V*

Technical Core

All students must complete.

EGR 101	Engineering Foundations	3
WKO 106	Workplace Skills	3
INT 119	Principles of Mechanical Measurement & Technical Drawing	3
CIS 146	Microcomputer Applications	3
MTH 116	Mathematical Applications	3
Technical Core Requirements		15

*Area V*

Program Option 15 (by advisement)

Students must complete one of the following program options.

***Industrial Engineering Technician*** 15 (by advisement)

QCT, PMC, EGR, ENT, EVT, ATM	12
QCT, PMC, PHS, PHY, MTH, EGR, ENT, CHM	
ATM, NDT	3

***Electrical Mechanical Engineering Technician*** 15 (by advisement)

INT, ILT, EGR, ENT	12
Additional courses from ILT, INT, PHY, PHS, EGR, ENT, MTH, DDT	3

***Energy & Conservation*** 15 (by advisement)

REN, NUC, EGR, ENT, PMC, ATM, NDT	12
Additional courses from REN, NUC, EGR, ENT, PMC, ATM, NDT, CHM, PHY, MTH	3

TOTAL HOURS REQUIRED FOR CERTIFICATE		43
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**REQUIREMENTS ARE TENTATIVE AND SUBJECT TO CONSIDERABLE REVISION BEFORE FINALIZED.**

**Short Term Certificate  
Engineering Technician**

EGR 101	Engineering Foundations	3
INT 119	Principles of Mechanical Measurement & Technical Drawing	3
CIS 146	Microcomputer Applications	3
MTH 116	Mathematical Applications	3
Elective	PHS, PHY, CHM, MTH, EGR, ENT	9
Elective	INT, ILT, ATM, IAT, DDT, EVT, CET, NUC, REN, QCT, PMC, EGR, ENT, NDT	6
TOTAL HOURS REQUIRED FOR STC		27