

**GENERAL REQUIREMENTS FOR THE ASSOCIATE IN ARTS (AA) DEGREE**

The Associate in Arts Degree is designed for students planning to transfer to a senior institution to complete a program of study in a liberal arts area. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing this degree program should be aware that certain variations may exist for Areas I, II, III, and IV depending on the student's Area V concentration. A student pursuing an AA degree must follow the specific requirements for the program as outlined in the catalog.

**Area I: Written Composition .....6 Credit Hours**

- Must complete ENG 101 and ENG 102.

**Area II: Humanities and Fine Arts..... 12 Credit Hours**

- Must complete at least three semester hours in Literature.\*
- Must complete at least three semester hours in the Arts.

*The remaining semester hours are to be selected from Humanities and/or Fine Arts. Humanities and Arts disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.*

**Area III: Natural Science and Mathematics..... 11 Credit Hours**

- Must complete at least three semester hours in Mathematics at the Pre-Calculus Algebra or Finite Math level or higher.

*Must complete at least eight semester hours in the Natural Sciences which must include laboratory experiences. Disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.*

**Area IV: History, Social, and Behavioral Sciences ..... 12 Credit Hours**

- Must complete at least three semester hours in History.\*
- Must complete at least six semester hours in other disciplines in the Social and Behavioral Sciences.

*Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.*

**Area I-IV: General Education Requirements.....41 Credit Hours**

**Area V: Pre-Professional, Pre-Major, and Elective Courses .....\*\*19-23 Credit Hours**

- Courses appropriate to the degree requirements and major of the individual student and electives.

*Students completing courses that have been approved for transfer by the AGSC and are appropriate to their major and/or degree program may transfer these courses with credit applicable to their degree program among two-year and four-year colleges and universities.*

**Total Hours Required .....\*\*60-64 Credit Hours**

*\*Must complete a six-semester-hour sequence either in Literature or in History. The sequences in Area II and IV in Literature and History need to follow the sequence requirements according to the student's major and transfer plans.*

*\*\*Respective programs of study for baccalaureate degrees at Alabama public and private universities range from 120 to 128 semester credit hours in length. Colleges are only authorized to provide 50 percent of that total (60-64, depending on the total hours allocated for the bachelor's degree).*

**GENERAL REQUIREMENTS FOR THE GENERAL EDUCATION SHORT TERM CERTIFICATE (STC)**

The general education short term certificate award is designed to assist students in developing an academic foundation to earn credit toward the associate of arts or associate of science degree. The outline below provides the general guidelines from Board Policy. A student pursuing the general education short term certificate must follow the specific requirements for the program as outlined in the catalog.

Area I: Written Composition.....	6 Credit Hours
Area II: Humanities and Fine Arts.....	3-9 Credit Hours
Area III: Natural Science and Mathematics.....	6-8 Credit Hours
Area IV: History, Social, and Behavioral Sciences.....	6-9 Credit Hours
Area I-IV: General Education Requirements.....	21-26 Credit Hours
Area V: Electives.....	1-3 Credit Hours
<b>Total Hours Required.....</b>	<b>22-29 Credit Hours</b>



Scenes from *Shrek* and *Almost Maine*.

**TRANSFER GUIDES  
ASSOCIATE IN ARTS**

The following transfer guides are for students who intend to major in the specific areas that are listed. The Alabama Articulation and General Studies Committee, which was created by the Alabama Legislature through ACT 94-202, devised these programs of study. This legislation requires that these programs and their courses be accepted for transfer at all public institutions of higher education in Alabama. Any student or faculty advisor who encounters a problem in getting these programs and courses transferred to a two or four-year college in Alabama should contact Dean Sherie Grace, who serves as the articulation contact person at Northeast. More detailed transfer guides and student transfer agreements to four-year colleges may be obtained from the Statewide Articulation Reporting System (STARS) on the Internet at <http://stars.troy.edu>. Students who complete the courses listed on the following Transfer Guides can receive the Associate in Arts Degree.

**Transfer Guide  
Art History**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
ART 100 Art Appreciation.....	3 hours
Humanities and Fine Arts Elective**.....	0-4 hours
Choose from: ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences**.....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)**.....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Science**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences**.....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications.....	3 hours
ART 113 Drawing I.....	3 hours
ART 114 Drawing II.....	3 hours

ART 121 Two-Dimensional Comp I.....	3 hours
ART 127 Three-Dimensional Comp II.....	3 hours
ART 203 Art History I.....	3 hours
ART 204 Art History II.....	3 hours
<b>Total.....</b>	<b>21 hours</b>

**Total Hours Required for Degree.....62-64 hours**

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
Art Studio**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
ART 100 Art Appreciation.....	3 hours
Humanities and Fine Arts**.....	0-4 hours
Choose from: ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences**.....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)**.....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Science**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences**.....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications.....	3 hours
ART 113 Drawing I.....	3 hours
ART 114 Drawing II.....	3 hours
ART 121 Two-Dimensional Comp I.....	3 hours
ART 127 Three-Dimensional Comp II.....	3 hours
ART 203 Art History I.....	3 hours
ART 204 Art History II.....	3 hours
<b>Total.....</b>	<b>21 hours</b>

**Total Hours Required for Degree.....62-64 hours**

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

## Transfer Guide Art Studio (B.F.A.)

### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
ART 100 Art Appreciation .....	3 hours
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

### Area III – Natural Sciences and Mathematics

Natural Sciences** .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Science

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications .....	3 hours
ART 113 Drawing I .....	3 hours
ART 114 Drawing II .....	3 hours
ART 121 Two-Dimensional Comp I .....	3 hours
ART 127 Three-Dimensional Comp II .....	3 hours
ART 203 Art History I .....	3 hours
ART 204 Art History II .....	3 hours
<b>Total</b> .....	<b>21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>62-64 hours</b>

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

## Transfer Guide English (B.A.)

### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

### Area II – Humanities and Fine Arts

ENG 261 English Literature I .....	3 hours
ENG 262 English Literature II .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120 or 126	
<b>Total</b> .....	<b>12 hours</b>

### Area III – Natural Sciences and Mathematics

Natural Sciences** .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Science

History .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications .....	3 hours
ENG 251 American Literature I .....	3 hours
ENG 252 American Literature II .....	3 hours
ENG 271 World Literature I* .....	3 hours
ENG 272 World Literature II* .....	3 hours
Area V Electives** .....	4-7 hours
<b>Total</b> .....	<b>19-22 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*9 semester-hour courses chosen for a 120 semester-hour degree.

12 semester-hour courses chosen for a 128 semester-hour degree.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>



## Transfer Guide General or Pre-Liberal Arts

### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

### Area III – Natural Sciences and Mathematics

Natural Sciences** .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Science

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications .....	3 hours
Area V Electives** .....	16-18 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>



## Short-Term Certificate in General Education

ENG 101 English Composition I .....	3
ENG 102 English Composition II .....	3
Choose from .....	3-4
ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; THR 120, 126	
Choose from .....	6-8
AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214; MTH 110, 112, 113, 125, 126, 227, 237, 238	
Choose from .....	6
ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; or SOC 200, 210	
Any course that will transfer to a four-year college .....	1-3
<b>Total Hours Required for Short Term Certificate</b> .....	<b>22-27 hours</b>

## Transfer Guide Music

### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
MUS 101 Music Appreciation .....	3 hours
Humanities and Fine Arts Elective# .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120 or 126	
<b>Total</b> .....	<b>12-13 hours</b>

### Area III – Natural Sciences and Mathematics

Natural Sciences# .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)# .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Science

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences# .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
Music Theory .....	8 hours
Choose from: MUS 111, 112 or 211	
Studio Courses** .....	5 hours
Music Ensembles*** .....	4 hours
Area V Electives# .....	0-1 hours
<b>Total.....</b>	<b>20-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>61-64 hours</b>

\*Must take a 6 semester-hour sequence either in literature or history.  
 \*\*Individual performance instruction taken from MUP courses – must include a complete sequence in a single instrument.  
 \*\*\*Taken from MUL 180 or above.

#Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 Theatre**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: THR 120 or 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences** .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Science**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
THR 131# or THR 236## .....	3 hours
THR 113 Theatre Workshop I .....	2 hours
Area II Electives** .....	13 hours
<b>Total.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-64 hours</b>

\*Must take a 6 semester-hour sequence either in literature or history.  
 \*\*Consult four-year catalog and/or STARS Transfer Guide  
<http://stars.troy.edu>  
 #Students seeking a theatre performance degree should take this course.  
 ##Students seeking a technical theatre degree should take this course.

Students should be reminded that most all required courses can be completed at Northeast for practically all programs of study listed on the STARS website. Our listing of majors/ programs of study is simply a compilation of some of the more popular options. On the next page is a comprehensive list of majors/programs of study from the STARS program.



*Swan Lake* performed by The Alabama Ballet.

**GENERAL REQUIREMENTS FOR THE ASSOCIATE IN SCIENCE (AS) DEGREE**

The Associate in Science Degree is designed for students planning to transfer to a senior institution to complete a program of study in the sciences or in a specialized pre-professional field. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing this degree program should be aware that certain variations may exist for Areas I, II, III, and IV depending on the student's Area V concentration. A student pursuing an AS degree must follow the specific requirements for the program as outlined in the catalog.

**Area I: Written Composition .....6 Credit Hours**

- Must complete ENG 101 and ENG 102.

**Area II: Humanities and Fine Arts.....12 Credit Hours**

- Must complete at least three semester hours in Literature.\*
- Must complete at least three semester hours in the Arts.
- The remaining semester hours are to be selected from Humanities and/or Fine Arts.

*Humanities and Arts disciplines include but are not limited to: Area/ Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.*

**Area III: Natural Science and Mathematics..... 11 Credit Hours**

- Must complete at least three semester hours in Mathematics at the Pre-Calculus Algebra or Finite Math level or higher.
- Must complete at least eight semester hours in the Natural Sciences which must include laboratory experiences.

*Disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.*

**Area IV: History, Social, and Behavioral Sciences .....12 Credit Hours**

- Must complete at least three semester hours in History.\*
- Must complete at least six semester hours in other disciplines in the Social and Behavioral Sciences.

*Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.*

**Area I-IV: General Education Requirements.....41 Credit Hours**

**Area V: Pre-Professional, Pre-Major, and Elective Courses ..... \*\*19-23 Credit Hours**

- Area V courses are courses appropriate to the degree requirements and major of the individual student and electives. Students completing courses that have been **approved** for transfer by the AGSC and are appropriate to their major and/or degree program may transfer these courses with credit applicable to their degree program among two-year and four-year colleges and universities.

**Total Hours Required .....\*\*60-64 Credit Hours**

*\*Must complete a six-semester-hour sequence either in Literature or in History. The sequences in Area II and IV in Literature and History need to follow the sequence requirements according to the student's major and transfer plans.*

*\*\*Respective programs of study for baccalaureate degrees at Alabama public and private universities range from 120 to 128 semester credit hours in length. Colleges are only authorized to provide 50 percent of that total (60-64, depending on the total hours allocated for the bachelor's degree).*

**TRANSFER GUIDES ASSOCIATE IN SCIENCE**

The following transfer guides are for students who intend to major in the specific areas that are listed. The Alabama Articulation and General Studies Committee, which was created by the Alabama Legislature through ACT 94-202, devised these programs of study. This legislation requires that these programs and their courses be accepted for transfer at all public institutions of higher education in Alabama. Any student or faculty advisor who encounters a problem in getting these programs and courses transferred to a two or four-year college in Alabama should contact Dean Sherie Grace, who serves as the articulation contact person at Northeast. More detailed transfer guides and student transfer agreements to four-year colleges may be obtained from the Statewide Articulation Reporting System (STARS) on the Internet at <http://stars.troy.edu>. Students who complete the courses listed on the following transfer guides can receive the Associate in Science Degree.

**Transfer Guide Accounting See Business.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide Agribusiness Economics See Business.**

**Consult four-year catalog and/or STARS Transfer Guide.**

## Transfer Guide Agricultural Business and Economics

### Area I – Written Composition

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature.....	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206 Ethics and Society.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

### Area III – Natural Sciences and Mathematics

MTH 120 Calculus and Its Applications or higher.....	3-4 hours
BIO 103-104 Principles of Biology I-II.....	8 hours
<b>Total.....</b>	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Sciences

History.....	6 hours
Choose from: HIS 101, 102, or HIS 201, 202	
ECO 231 Principles of Macroeconomics.....	3 hours
SOC 200 or PSY 200.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications.....	3 hours
BUS 271-272 Business Statistics I-II.....	6 hours
BUS 241-242 Principles of Accounting I-II.....	6 hours
ECO 232 Principles of Microeconomics.....	3 hours
Area V Elective*.....	1 hour
<b>Total.....</b>	<b>19 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>60-61 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

## Transfer Guide Agronomy and Soils

### Area I – Written Composition

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature.....	3 hours
Choose from: ENG 251 and 252; ENG 261 and 262; or ENG 271 and 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective***.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

### Area III – Natural Sciences and Mathematics

MTH 113 or higher (excluding MTH 116)*.....	3-4 hours
CHM 111 College Chemistry I.....	4 hours
CHM 112 College Chemistry II.....	4 hours
<b>Total.....</b>	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Sciences

History.....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
ECO 232 Principles of Microeconomics.....	3 hours
Social and Behavioral Sciences***.....	3 hours
Choose from: GEO 100; POL 211; PSY 200; SOC 200	
<b>Total.....</b>	<b>12 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications.....	3 hours
MTH 125 Calculus I**.....	4 hours
BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
CHM 221 Organic Chemistry I.....	4 hours
Area V Elective***.....	0-3 hours
<b>Total.....</b>	<b>19-22 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>60-64 hours</b>

\*MTH 112 or appropriate placement scores are prerequisites for MTH 113.

\*\*MTH 112, 113, or appropriate placement scores are prerequisites for MTH 125.

\*\*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

## Transfer Guide Animal Sciences

### Area I – Written Composition

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature.....	3-6 hours
Choose from: ENG 251 and 252; ENG 261 and 262; or ENG 271 and 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

### Area III – Natural Sciences and Mathematics

MTH 113 or higher (excluding MTH 116).....	3-4 hours
BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
<b>Total.....</b>	<b>11-12 hours</b>

### Area IV – History, Social, and Behavioral Sciences

History.....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
ECO 232 Principles of Microeconomics.....	3 hours
Social and Behavioral Sciences*.....	3 hours
Choose from: GEO 100; PSY 200; SOC 200; POL 211	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II .....	4 hours
CIS 146 Microcomputer Applications .....	3 hours
CHM 221 Organic Chemistry I .....	4 hours
Area V Electives* .....	4-7 hours
<b>Total .....</b>	<b>19-22 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide**

**Apparel Merchandising, Design & Productivity  
 See Business.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide**

**Applied Mathematics (AU only)  
 See Mathematics.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide**

**Architecture (AU only)**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total .....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; MUS 101; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total .....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I .....	4 hours
Physics Sequence .....	8 hours
Choose from: PHY 201 and 202 or PHY 213 and 214 (not PHY 215)	
<b>Total .....</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total .....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

PHL 206 Ethics & Society .....	3 hours
CIS 207 and 208 .....	6 hours
Area V Electives** .....	9-12 hours
<b>Total .....</b>	<b>18-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

#Auburn University strong recommends that students submit an application to transfer for summer semester.

**Transfer Guide  
 Athletic Training**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total .....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262 or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126; ENG 251, 252; ENG 261, 262 or ENG 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202	
<b>Total .....</b>	<b>12-13 hours</b>

**Area III – Natural Science and Mathematics**

BIO 103 Principles of Biology .....	4 hours
Physics .....	4 hours
Choose from: PHY 201, 202, 213, 214	
Mathematics .....	3-4 hours
MTH 112 or higher (excluding MTH 116)	
The University of Alabama requires MTH 112 or higher.	
The University of West Alabama requires MTH 113 or higher.	
<b>Total .....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
PSY 200 General Psychology .....	3 hours
Social and Behavioral Sciences .....	3-6 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 210; SOC 200, 210	
<b>Total .....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

BIO 201 Human Anatomy and Physiology I .....	4 hours
BIO 202 Human Anatomy and Physiology II .....	4 hours
CIS Elective** .....	3 hours



Area V Electives\*\* .....8-11 hours  
**Total.....19-22 hours**  
**Total hours required for degree.....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**  
**Behavioral Science**  
**See Psychology.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide**  
**Biochemistry**  
**See Chemistry.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide**  
**Biology**

**Area I – Written Composition**

ENG 101 English Composition I .....3 hours  
 ENG 102 English Composition II.....3 hours  
**Total.....6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking .....3 hours  
 Fine Arts Elective\*\* .....3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

MTH 112 or higher (excluding MTH 116) .....3-4 hours  
 BIO 103 Principles of Biology I .....4 hours  
 BIO 104 Principles of Biology I .....4 hours  
**Total.....11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total.....12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 .....3 hours  
 CHM 111, 112 .....8 hours  
 CHM 221, 222 .....0-8 hours

\*\*MTH 125 Calculus I .....0-4 hours  
 Area V Electives .....0-12  
**Total.....19-23 hours**  
**Total Hours Required for Degree .....60-64 hours**

*NOTE: Statistics or a sequence in physics is required for some four year schools. Consult the four-year catalog.*

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

*NOTE: Any combination of 19-23 hours listed in Area V will meet the requirements for the A.S. degree.*

**Transfer Guide**  
**Biomedical Sciences**

**Area I –Written Composition**

ENG 101 English Composition I .....3 hours  
 ENG 102 English Composition II.....3 hours  
**Total.....6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking .....3 hours  
 Fine Arts Elective\*\* .....3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252,  
 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151,  
 152; SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I (UAB will accept MTH 113) .....4 hours  
 CHM 111 College Chemistry I .....4 hours  
 CHM 112 College Chemistry II.....4 hours  
**Total.....12 hours**

**Area IV – History, Social and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, HIS 102, or HIS 201, HIS 202  
 PSY 200 General Psychology .....3 hours  
 Social and Behavioral Sciences\*\* .....3-6 hours  
 Choose from: ECO 231; ECO 232; GEO 100; POL 211;  
 PSY 200, 210; SOC 200, 210  
**Total.....12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....3 hours  
**Select 16-20 semester hours from the following:**  
 BIO 103 Principles of Biology I .....4 hours  
 BIO 104 Principles of Biology II.....4 hours  
 CHM 221 Organic Chemistry I.....4 hours  
 CHM 222 Organic Chemistry II .....4 hours  
 HEC 140 (UAB Only) .....3 hours  
 MTH 265 Elementary Statistics.....3 hours  
 PHY 201 or 213 .....4 hours

PHY 202 or 214 .....	4 hours
<b>Total.....</b>	<b>19-23 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>61-64 hours</b>

\*Must take a 6-semester hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

NOTE: Any combination of 19-23 hours listed in Area V will meet the requirements for the A.S. degree.

### Transfer Guide Building Science (AU only)

#### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

#### Area II – Humanities and Fine Arts

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

#### Area III – Natural Sciences and Mathematics

MTH 125 Calculus I .....	4 hours
PHY 201 General Physics I – Trig Based .....	4 hours
PHY 202 General Physics II – Trig Based.....	4 hours
<b>Total.....</b>	<b>12 hours</b>

#### Area IV – History, Social, and Behavioral Sciences

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
ECO 232 Principles of Microeconomics .....	3 hours
Social and Behavioral Sciences.....	3-6 hours
Choose from: ECO 231, GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

#### Area V – Pre-Professional, Major, and Elective Courses

BUS 241 Principles of Accounting I.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
PHL 206 Ethics and Society.....	3 hours
BUS 146 Personal Finance.....	3 hours
Area V Electives** .....	7-10 hours
<b>Total.....</b>	<b>19-22 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>61-65 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

### Transfer Guide Business

#### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

#### Area II – Humanities and Fine Arts

Literature** .....	6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
Fine Arts Electives** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Electives.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

#### Area III – Natural Sciences and Mathematics

MTH 112 Precalculus Algebra.....	3 hours
Natural Sciences**.....	8 hours
Choose from: AST 220, BIO 103, 104; CHM 104, 105; CHM 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
<b>Total.....</b>	<b>11 hours</b>

#### Area IV – History, Social, and Behavioral Sciences

History**.....	3 hours
Choose from: HIS 101, 102, 201, or 202	
ECO 231 and 232** .....	6 hours
PSY 200 or SOC 200** .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

#### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications .....	3 hours
BUS 271 Business Statistics I.....	3 hours
BUS 272 Business Statistics II* .....	3 hours
BUS 241 Principles of Accounting I.....	3 hours
BUS 242 Principles of Accounting II .....	3 hours
MTH 120 Calculus and Its Applications*.....	3 hours
BUS 263 Legal and Social Environment of Business .....	3 hours
<b>Total.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>62-63 hours</b>

\*Elective hours if these courses are not required by your senior college.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

### Transfer Guide Business Education See Business Education.

Consult four-year catalog and/or STARS Transfer Guide.

### Transfer Guide Chemistry

#### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
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ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
 MTH 125 Calculus I ..... 4 hours  
**Total..... 12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

PHY 201 or 213\*\* ..... 4 hours  
 PHY 202 or 214\*\* ..... 4 hours  
 CIS 146 ..... 3 hours  
 MTH 126 Calculus II\*\* ..... 0-4 hours  
 Area V Electives\*\* ..... 3-10 hours  
**Total..... 18-21 hours**  
**Total Hours Required for Degree ..... 60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Clinical Laboratory Sciences/Medical Technology**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Electives\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126

Humanities and Fine Arts Electives\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126

**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
 MTH 112 Precalculus Algebra ..... 3 hours  
**Total..... 11 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210

**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

BIO 103 Principles of Biology I ..... 4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 CHM 221 Organic Chemistry I ..... 4 hours  
 Area V Electives\*\* ..... 8-11 hours  
**Total..... 19-22 hours**

**Total Hours Required for Degree ..... 60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

*Note: Microbiology (BIO 220), Statistics (MTH 265), A&P I & II (BIO 201 & 202) are required for some institutions. Consult the Catalog of your four-year institution.*

**Transfer Guide  
 Communication Studies or Speech**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204;  
 ENG 251, 252, 261, 262, 271, 272; MUS 101;  
 PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126

**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences\* ..... 8 hours  
 Choose from: AST 220, BIO 103, 104;  
 CHM 104, 105, 111, 112; PHS 111, 112;  
 PHY 120; PHY 201, 202, 213, 214  
 MTH 112 or higher (excluding MTH 116) ..... 3-4 hours  
**Total**..... **11-12 hours**

**Area IV – History, Social and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102, or HIS 201, 202  
 Social and Behavioral Sciences\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total**..... **12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours  
 Electives: AGSC approved courses not previously  
 taken in Areas I-IV\* ..... 9-12 hours  
 Area V Electives\* ..... 6-9 hours  
**Total**..... **21 hours**  
**Total Hours Required for Degree** ..... **62-64 hours**

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 Computer Information Systems  
 See Computer Science**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide  
 Computer Science**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total**..... **6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total**..... **12-13 hours**

**Area III – Natural Sciences and Mathematics**

MTH 112 or higher (excluding MTH 116) ..... 3-4 hours  
 Natural Sciences\*\* ..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105;  
 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214  
**Total**..... **11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total**..... **12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 113 Precalculus Trigonometry ..... 3 hours  
 MTH 125 Calculus I ..... 4 hours  
 MTH 126 Calculus II ..... 4 hours  
 CIS 251 C++ Programming ..... 3 hours  
 Area V Electives\*\* ..... 5-8 hours  
**Total**..... **19-22 hours**  
**Total Hours Required for Degree** ..... **60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.  
 \*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 Criminal Justice**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total**..... **6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total**..... **12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences\*\* ..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112;  
 PHS 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* ..... 3-4 hours  
**Total**..... **11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102; HIS 201, 202  
 Social and Behavioral Sciences ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210, SOC, 200, 210  
**Total**..... **12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CRJ 100 Introduction to Criminal Justice ..... 3 hours

CRJ 110 Introduction to Law Enforcement, or CRJ 150 Introduction to Corrections, or CRJ 160 Introduction to Security .....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
**Area V Electives .....	12 hours
<b>Total.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>62-64 hours</b>

\*Students must take a sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
Economics  
See Business.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide  
Art Education**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
ART 100 Art Appreciation .....	3 hours
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 203, ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Science Sequence** .....	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Science**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
ART 113 Drawing I .....	3 hours
ART 114 Drawing II .....	3 hours
ART 121 Two-Dimensional Comp I .....	3 hours
ART 127 Three-Dimensional Comp II .....	3 hours
ART 204 Art History II .....	3 hours

<b>Total.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-64 hours</b>

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Biology Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I .....	4 hours
BIO 104 Principles of Biology II .....	4 hours
MTH 112 or higher (excluding MTH 116) .....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
CHM 111, 112 College Chemistry I-II .....	8 hours
Area V Electives** .....	8-10 hours
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Business Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature.....	6 hours
Choose from: ENG 251, 252, 261, 262; or 271, 272	
Fine Arts Elective**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
SPH 107 Fundamentals of Public Speaking.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 110 or higher (excluding MTH 116)*.....	3-4 hours
Natural Sciences*.....	8 hours
Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History**.....	3 hours
Choose from: HIS 101, 102, 201, or 202	
ECO 231 or ECO 232*.....	3 hours
History, Social, and Behavioral Sciences Elective.....	6 hours
Choose from: HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200; ECO 231, 232	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

BUS 241 Principles of Accounting I.....	3 hours
BUS 242 Principles of Accounting II.....	3 hours
BUS 263 The Legal and Social Environment of Business.....	3 hours
CIS 146 Microcomputer Applications.....	3 hours
Elective Courses by Advisement.....	9 hours
<b>Total Area V.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>62-63 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide**

**Chemistry Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I.....	4 hours
CHM 112 College Chemistry II.....	4 hours
MTH 125 Calculus I.....	4 hours
<b>Total.....</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences**.....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

PHY 201, 202 or PHY 213, 214.....	8 hours
CIS 146 Microcomputer Applications.....	3 hours
MTH 126.....	0-4 hours
Area V Electives**.....	3-10 hours
<b>Total.....</b>	<b>18-21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Early Childhood Education (P-3): Athens Only**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences.....	8 hours
Choose from: BIO 103, 104; PHS 111, 112	
MTH 110 or higher (excluding MTH 116)**.....	3 hours
<b>Total.....</b>	<b>11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
PSY 200 General Psychology.....	3 hours
PSY 210 Human Growth and Development.....	3 hours

Social and Behavioral Sciences\*\* .....0-3 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

Area III Electives representing a discipline other than biology..4 hours  
 Such as: CHM 104, 105, 111, 112; PHS 111, 112;  
 PHY 201, 202, 213, 214\*\* ..... 9 hours  
 Mathematics Electives\*\* ..... 9 hours  
 CHD 206 Children’s Health and Safety..... 3 hours  
 CHD 209 Infant and Toddler Education Programs..... 3 hours  
 CHD Elective..... 3 hours  
 Choose from: CHD 203, CHD 204, CHD 205, CHD 215  
**Total..... 22 hours**  
**Total Hours Required for Degree .....63-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Elementary/Early Childhood Education (K-6)**

**Area I – Written Composition**

ENG 101 English Composition I..... 3 hours  
 ENG 102 English Composition II..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I\*\* ..... 4 hours  
 BIO 104 Principles of Biology II\*\* ..... 4 hours  
 MTH 110 or higher (excluding MTH 116)\*\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211;  
 PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours

Area III Electives representing a discipline other than  
 Biology such as CHM 104, 105; CHM 111, 112;  
 PHS 111, 112; PHY 201, 202, 213, 214\*\* .....4-8 hours  
 Mathematics Electives\*\* ..... 9 hours  
 Area V Electives\*\* .....0-3 hours  
**Total.....19-20 hours**

**Total Hours Required for Degree .....60-63 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**English/Language Arts Education:  
 Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

ENG 261 English Literature I ..... 3 hours  
 ENG 262 English Literature II..... 3 hours  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 THR 120 Theater Appreciation or  
 THR 126 Introduction to Theater ..... 3 hours  
**Total..... 12 hours**

**Area III – Natural Sciences and Mathematics**

Natural Science Sequence\* ..... 8 hours  
 Choose from: BIO 103, 104; CHM 104, 105, 111, 112;  
 PHS 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History.....3-6 hours  
 Choose from: HIS 101, 102, 201, or 202  
 Social and Behavioral Sciences\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211;  
 PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours  
 ENG 251 American Literature I..... 3 hours  
 ENG 252 American Literature II ..... 3 hours  
 ENG 271, 272 World Literature I-II ..... 6 hours  
 Area V Electives\* ..... 4 hours  
**Total..... 19 hours**

**Total Hours Required for Degree .....60-61 hours**

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**General Science Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours

ENG 102 English Composition II.....3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I ..... 4 hours  
 BIO 104 Principles of Biology II ..... 4 hours  
 MTH 113 or 125\*\* # .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses#**

CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 PHY 201 or PHY 213\*\* ..... 4 hours  
 Area V Electives\*\* .....4-6 hours  
**Total.....19-21 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

#The General Science Education Program is quite different at several four-year institutions. Closely consult the four-year catalog and your advisor in addition to the STARS Transfer Guide.

**Transfer Guide**

**Health Education: Middle/High School  
 See Physical Education.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide**

**History Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105;  
 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social and Behavioral Sciences**

HIS 101 History of Western Civilization I ..... 3 hours  
 HIS 102 History of Western Civilization II ..... 3 hours  
 Social and Behavioral Sciences\* ..... 6 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

HIS 201 U.S. History I ..... 3 hours  
 HIS 202 U.S. History II ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives\* .....9-12 hours  
**Total.....18-21 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Mathematics Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126



Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126

**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

\*\*Natural Sciences..... 8 hours  
 Choose from: AST 220; BIO 103, 104;  
 CHM 104, 105, 111, 112; PHS 111, 112;  
 PHY 120, 201, 202, 213, 214

MTH 113 or higher (excluding MTH 116)\*\* .....3-4 hours

**Total..... 11-12 hours**

**Area IV – History, Social and Behavioral Sciences**

History\*.....3-6 hours

Choose from: HIS 101, 102 or HIS 201, 202

Social and Behavioral Sciences\*\* .....6-9 hours

Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210

**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 125 Calculus I ..... 4 hours

MTH 126 Calculus II ..... 4 hours

MTH 227 Calculus III..... 4 hours

CIS 146 or 251\*\* ..... 3 hours

Area V Electives\*\* .....4-6 hours

**Total.....19-23 hours**

**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Music Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours

ENG 102 English Composition II..... 3 hours

**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\*.....3-6 hours

Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272

SPH 107 Fundamentals of Public Speaking ..... 3 hours

MUS 101 Music Appreciation ..... 3 hours

Humanities and Fine Arts Elective# .....0-4 hours

Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126

**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences#..... 8 hours

Choose from: BIO 103, 104; CHM 104, 105;  
 CHM 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214

MTH 110 or higher (excluding MTH 116)# .....3-4 hours

**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\*.....3-6 hours

Choose from: HIS 101, 102 or HIS 201, 202

Social and Behavioral Sciences# .....6-9 hours

Choose from: ECO 231, 232; GEO 100; POL 211;  
 PSY 200, 210; SOC 200, 210

**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours

Music Theory ..... 8 hours

Choose from: MUS 111, 112 or MUS 211, 212

Studio Courses\*\* ..... 5 hours

Music Ensembles\*\*\* ..... 4 hours

**Total..... 20 hours**

**Total Hours Required for Degree .....61-63 hours**

\*Must take a 6 semester-hour sequence either in literature or history.

\*\*Individual performance instruction taken from MUP courses–must include a complete sequence in a single instrument.

\*\*\*Taken from MUL 180 or above.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Physical Education: (K-12)**

**Area I –Written Composition**

ENG 101 English Composition I ..... 3 hours

ENG 102 English Composition II..... 3 hours

**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\*.....3-6 hours

Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272

SPH 107 Fundamentals of Public Speaking ..... 3 hours

Fine Arts Elective\*..... 3 hours

Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126

Humanities and Fine Arts Elective\* .....0-4 hours

Choose from: ART 100, 203, 204; ENG 251, 252,  
 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151,  
 152; SPA 101, 102, 201, 202; THR 120, 126

**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences\*..... 8 hours

Choose from: AST 220, BIO 103, 104;  
 CHM 104, 105, 111, 112; PHS 111, 112;  
 PHY 120, 201, 202, 213, 214

MTH 112 or higher (excluding MTH 116) .....3-4 hours

**Total..... 11-12 hours**

**Area IV – History, Social and Behavioral Sciences**

History\*.....3-6 hours

Choose from: HIS 101, HIS 102, or HIS 201, HIS 202

Social and Behavioral Sciences\* .....6-9 hours

Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210

**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
BIO 201 Human Anatomy and Physiology I .....	4 hours
HED 230 Safety and First Aid .....	3 hours
PED 200** Foundations of Physical Education .....	3 hours
Area V Electives* .....	6-8 hours
<b>Total .....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

\*\*Health Education requires HEC-140 in place of PED 200

**Transfer Guide**

**Physics Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total .....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total .....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I .....	4 hours
PHY 213 and PHY 214 .....	8 hours
<b>Total .....</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total .....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II .....	4 hours
MTH 227 Calculus III .....	4 hours
MTH 237 or MTH 238** .....	3 hours
CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II** .....	0-4 hours
CIS 146 or 251** .....	3 hours
<b>Total .....</b>	<b>18-22 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Social Studies Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total .....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective* .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total .....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences* .....	8 hours
Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)* .....	3-4 hours
<b>Total .....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

GEO 100 World Regional Geography .....	3 hours
HIS 101 History of Western Civilization I .....	3 hours
HIS 102 History of Western Civilization II .....	3 hours
PSY 200 General Psychology .....	3 hours
<b>Total .....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

SOC 200 Introduction to Sociology .....	3 hours
HIS 201 U.S. History I .....	3 hours
HIS 202 U.S. History II .....	3 hours
POL 211 American National Government .....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
Area V Electives* .....	3-6 hours
<b>Total .....</b>	<b>18-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Spanish Education: Middle/High School**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total .....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-3 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252,  
 261, 262, 271, 272; MUS 101; PHL 206; REL 100,  
 151, 152; THR 120, 126  
**Total..... 12 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences\*\* ..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112;  
 PHS 111, 112; PHY 120; 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, 102; HIS 201, 202  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210;  
 SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

SPA 101 Introductory Spanish I ..... 4 hours  
 SPA 102 Introductory Spanish II ..... 4 hours  
 SPA 201 Intermediate Spanish I ..... 3 hours  
 SPA 202 Intermediate Spanish II ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives\*\* .....2-5 hours  
**Total.....19-22 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
 Special Education**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\* .....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126

Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I\*\* ..... 4 hours  
 BIO 104 Principles of Biology II\*\* ..... 4 hours  
 MTH 110 or higher (excluding MTH 116)\*\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\* .....3-6 hours  
 Choose from: HIS 101, 102, or HIS 201, 202  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211;  
 PSY 200, 210; SOC 200, 210;  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours  
 Area III Electives representing disciplines other than  
 Biology such as: CHM 104, 105; CHM 111, 112;  
 PHS 111, 112; PHY 201, 202, 213, 214\*\* .....4-8 hours  
 Mathematics Electives\*\* ..... 9 hours  
 Area V Electives\*\* .....0-3 hours  
**Total.....19-20 hours**  
**Total Hours Required for Degree .....60-63 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
 Engineering—Aerospace**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature# ..... 3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
**Total..... 9 hours**

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I\* ..... 4 hours  
 PHY 213 General Physics with Calculus I\*\* ..... 4 hours  
 PHY 214 General Physics with Calculus II ..... 4 hours  
**Total..... 12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History# ..... 6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202

Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237 Linear Algebra	3 hours
MTH 238 Applied Differential Equations I	3 hours
CHM 111 College Chemistry I	4 hours
BIO 103 or CHM 112#	0-4 hours
CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
<b>Total</b>	<b>24-28 hours</b>

**Total Hours Required for Degree 60-64 hours**

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

\*\*MTH 125 is a prerequisite for PHY 213.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
Engineering-Biomedical (UAB Only)**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective*	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I or higher*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History	6 hours
Choose from: HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*	3 hours
Choose from: ECO 231; ECO 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 or 251	3 hours
BIO 103 Principles of Biology I	4 hours
CHM 111 College Chemistry I	4 hours
CHM 112 College Chemistry II	4 hours
CHM 221 Organic Chemistry I	4 hours

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 238	3 hours
<b>Total</b>	<b>26-28 hours</b>
<b>Total Hours Required for Degree</b>	<b>62-63 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

NOTE: Any combination of 24-28 hours listed in Area V will meet the requirements for the A.S. degree.

**Transfer Guide  
Engineering-Biosystems (AU Only)  
See Chemical Engineering.**

**Transfer Guide  
Engineering—Chemical**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective#	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 or 251	3 hours
MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237# Linear Algebra	0-3 hours
MTH 238# Applied Differential Equations I	0-3 hours
CHM 111 College Chemistry I	4 hours
CHM 112 College Chemistry II	4 hours
CHM 221 Organic Chemistry I	4 hours
CHM 222 Organic Chemistry II	4 hours

PHL 206# Ethics and Society .....0-3 hours  
**Total.....24-28 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125  
 #Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Engineering—Civil

#### Area I – Written Composition

ENG 101 English Composition I .....3 hours  
 ENG 102 English Composition II .....3 hours  
**Total.....6 hours**

#### Area II – Humanities and Fine Arts

Literature# .....3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking .....3 hours  
 Fine Arts Elective# .....3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
**Total.....9 hours**

#### Area III – Natural Sciences and Mathematics

MTH 125 Calculus I\* .....4 hours  
 PHY 213 General Physics with Calculus I .....4 hours  
 PHY 214 General Physics with Calculus II .....4 hours  
**Total.....12 hours**

#### Area IV – History, Social, and Behavioral Sciences

History# .....6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences# .....3 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total.....9 hours**

#### Area V – Pre-Professional, Major, and Elective Courses

MTH 126 Calculus II .....4 hours  
 MTH 227 Calculus III .....4 hours  
 MTH 237# Linear Algebra .....0-3 hours  
 MTH 238 Applied Differential Equations I .....3 hours  
 CHM 111 College Chemistry I .....4 hours  
 CIS Elective# .....3 hours  
 BIO 103 or CHM 112# .....4 hours  
 Area V Electives# .....0-3 hours  
**Total.....25-28 hours**  
**Total Hours Required for Degree .....61-64 hours**

\*MTH 112, 113 or appropriate placement scores are prerequisites for  
 MTH 125.  
 #Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Engineering—Computer

#### Area I – Written Composition

ENG 101 English Composition I .....3 hours

ENG 102 English Composition II .....3 hours  
**Total.....6 hours**

#### Area II – Humanities and Fine Arts

Literature# .....3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272;  
 SPH 107 Fundamentals of Public Speaking .....3 hours  
 Fine Arts Elective# .....3 hours  
 Choose from: ART 100, 203, 204; MUS 101; THR 120, 126  
**Total.....9 hours**

#### Area III – Natural Sciences and Mathematics

MTH 125 Calculus I\* .....4 hours  
 PHY 213 General Physics with Calculus I .....4 hours  
 PHY 214 General Physics with Calculus II .....4 hours  
**Total.....12 hours**

#### Area IV – History, Social, and Behavioral Sciences

History# .....6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences# .....3 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total.....9 hours**

#### Area V – Pre-Professional, Major, and Elective Courses

MTH 126 Calculus II .....4 hours  
 MTH 227 Calculus III .....4 hours  
 MTH 237# Linear Algebra .....0-3 hours  
 MTH 238 Applied Differential Equations I .....3 hours  
 CHM 111 College Chemistry I .....4 hours  
 CIS Elective# .....3 hours  
 PHL 206# Ethics and Society .....0-3 hours  
 Area V Electives# .....3-6 hours  
**Total.....24-27 hours**  
**Total Hours Required for Degree .....60-63 hours**

\*MTH 112, 113 or appropriate placement scores are prerequisites for  
 MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Engineering—Computer Science Option

#### Area I – Written Composition

ENG 101 English Composition I .....3 hours  
 ENG 102 English Composition I .....3 hours  
**Total.....6 hours**

#### Area II – Humanities and Fine Arts

Literature# .....3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking .....3 hours  
 Fine Arts Elective# .....3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
**Total.....9 hours**

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237 Linear Algebra	3 hours
Science Elective	4 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; or PHY 201, 202	
CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
Area V Electives#	3-6 hours
<b>Total</b>	<b>24-27 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-63 hours</b>

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide: <http://stars.troy.edu>

**Transfer Guide  
Engineering—Electrical**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature#	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective#	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	

Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237# Linear Algebra	3 hours
MTH 238 Applied Differential Equations I	3 hours
CHM 111 College Chemistry I	4 hours
CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
Area V Electives#	0-3 hours
<b>Total</b>	<b>24-27 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-63 hours</b>

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide: <http://stars.troy.edu>

**Transfer Guide  
Engineering—Industrial**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature#	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective#	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237 Linear Algebra	3 hours
MTH 238 Applied Differential Equations	3 hours
CHM 111 College Chemistry I	4 hours
BIO 103 or CHM 112#	0-4 hours

CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
Area V Elective#	0-3 hours
<b>Total</b>	<b>25-28 hours</b>
<b>Total Hours Required for Degree</b>	<b>61-64 hours</b>

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

## Transfer Guide Engineering—Materials

### Area I – Written Composition

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature#	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective#	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

### Area III – Natural Sciences and Mathematics

MTH 125 Calculus I*	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

### Area IV – History, Social, and Behavioral Sciences

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237 Linear Algebra	3 hours
MTH 238 Applied Differential Equations	3 hours
CHM 111 College Chemistry I	4 hours
CHM 112 College Chemistry II	4 hours
CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
Area V Electives#	0-3 hours
<b>Total</b>	<b>25-28 hours</b>
<b>Total Hours Required for Degree</b>	<b>61-64 hours</b>

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

## Transfer Guide Engineering—Mechanical

### Area I – Written Composition

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

### Area II – Humanities and Fine Arts

Literature#	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective#	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b>	<b>9 hours</b>

### Area III – Natural Sciences and Mathematics

MTH 125 Calculus I**	4 hours
PHY 213 General Physics with Calculus I	4 hours
PHY 214 General Physics with Calculus II	4 hours
<b>Total</b>	<b>12 hours</b>

### Area IV – History, Social, and Behavioral Sciences

History#	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences#	3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>9 hours</b>

### Area V – Pre-Professional, Major, and Elective Courses

MTH 126 Calculus II	4 hours
MTH 227 Calculus III	4 hours
MTH 237# Linear Algebra	0-3 hours
MTH 238 Applied Differential Equations I	3 hours
CHM 111 College Chemistry I	4 hours
BIO 103 or CHM 112#	4 hours
CIS Elective#	3 hours
PHL 206# Ethics and Society	0-3 hours
Area V Electives#	0-6 hours
<b>Total</b>	<b>25-28 hours</b>
<b>Total Hours Required for Degree</b>	<b>61-64 hours</b>

\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

## Transfer Guide Environmental Science

### Area I –Written Composition

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective*	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 112 or higher (excluding MTH 116)*	3-4 hours
CHM 111 College Chemistry I	4 hours
CHM 112 College Chemistry II	4 hours
<b>Total</b>	<b>11-12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications	3 hours
BIO 103 Principles of Biology I	4 hours
BIO 104 Principles of Biology II	4 hours
Area V Electives*	8-10 hours
<b>Total</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
Family & Consumer Sciences**

**Area I –Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective*	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 112 or higher (excluding MTH 116)	3-4 hours
Natural Science*	8 hours
Choose from: AST 220, BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
<b>Total</b>	<b>11-12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications	3 hours
HEC 140 Principles of Nutrition	3 hours
Area V Electives*	13-15 hours
<b>Total</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
Fisheries Science (AU Only)**

**Area I –Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective*	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206	3 hours
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I or higher*	4 hours
BIO 103 Principles of Biology I	4 hours
BIO 104 Principles of Biology II	4 hours
<b>Total</b>	<b>12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History Sequence	6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
ECO 232 Principles of Microeconomics	3 hours
Social and Behavioral Sciences*	3 hours
Choose from: ECO 231; GEO 100; POL 211; PSY 200; SOC 200	
<b>Total</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications	3 hours
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CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II.....	4 hours
CHM 221 Organic Chemistry I.....	4 hours
Area V Electives* .....	3-7 hours
<b>Total.....</b>	<b>18-22 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 Food and Nutrition  
 See Nutrition.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
 Foreign Language  
 See Spanish Education (Middle/HS).**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
 Forestry**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Literature.....	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
Fine Arts Electives* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206 Ethics and Society .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
MTH 113 or higher (excluding MTH 116).....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History.....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
ECO 232 Principles of Microeconomics .....	3 hours
Social and Behavioral Sciences* .....	3 hours
Choose from: ECO 231; GEO 100; POL 211; PSY 200; SOC 200	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CHM 104, 105 or CHM 111, 112 .....	8 hours
MTH 265 Elementary Statistics.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours

Area V Electives* .....	5-8 hours
<b>Total.....</b>	<b>19-22 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 General Studies in Human Environmental Sciences  
 See Family and Consumer Sciences.  
 Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide  
 Geology**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
 Health and Wellness Management  
 See Health Science.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
 Health Science**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamental of Public Speaking.....	3 hours
Fine Arts Elective**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences**.....	8 hours
Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, or 214	
MTH 112 or higher (excluding MTH 116)**.....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; or SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
BIO 201 Human Anatomy and Physiology I .....	4 hours
Area V Electives** .....	12-14 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Must take a 6 semester hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Health, Physical Education, and Recreation  
See Physical Education.**

**Transfer Guide**

**History**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamental of Public Speaking .....	3 hours
Fine Arts Elective* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective* .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences* .....	8 hours
Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)* .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History Sequence** .....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences* .....	6 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

History Sequence** .....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
CIS 146 Microcomputer Applications .....	3 hours
Area II-IV Electives* .....	3 hours

Area V Electives* .....	6-9 hours
<b>Total</b> .....	<b>18-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

\*\*History course(s) chosen in Area IV will NOT fulfill the history requirement for Area V.

**Transfer Guide**

**Horticulture (AU only)**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206 Ethics and Society .....	3 hours
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I .....	4 hours
BIO 104 Principles of Biology II .....	4 hours
MTH 113 or higher (excluding MTH 116) .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences** .....	6-9 hours
Choose from: ECO 231; ECO 232; GEO 100; POL 211; PSY 200; SOC 200	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
CHM 111 College Chemistry I .....	4 hours
Area V Electives** .....	12-14 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide**

**Human Environmental Science  
See Family and Consumer Services.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide  
Industrial Hygiene (UNA Only)**

**Area I –Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I**.....	4 hours
CHM 111 College Chemistry I.....	4 hours
CHM 112 College Chemistry II.....	4 hours
<b>Total.....</b>	<b>12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*.....	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*.....	6-9 hours
Choose from: ECO 231; ECO 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications.....	3 hours
<b>Choose 16-18 hours from:</b>	
BIO 103; BIO 201; BIO 202; BIO 220; CHM 221; CHM 222; MTH 126; MTH 265; PHY 213; PHY 214	
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

\*\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

**Transfer Guide  
Information Systems  
See Business.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
Kinesiology and Exercise Science**

**Area I –Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206#; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 112# or higher (excluding MTH 116)*.....	3-4 hours
BIO 103 Principles of Biology I.....	4 hours
CHM 111 (Montevallo and UAB accept CHM 104).....	4 hours
<b>Total.....</b>	<b>11-12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*.....	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*.....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications.....	3 hours
BIO 201 Human Anatomy and Physiology I.....	4 hours
HED-PED Electives*.....	3-6 hours
Choose from: PED 200, HED 224, HED 226, HED 230	
Area V Electives*.....	6-8 hours
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

#Auburn University & UAB requires MTH 113 in Area III

**Transfer Guide  
Lab Technology  
See Clinical Laboratory Sciences/  
Medical Technology.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
Mathematics**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	

SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective*** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Sciences*** .....	8 hours
Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 112 or higher (excluding MTH 116)** .....	3-4 hours
<b>Total</b> .....	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History* .....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences*** .....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS Elective*** .....	3 hours
MTH 125 Calculus I .....	4 hours
MTH 126 Calculus II .....	4 hours
MTH 227 Calculus III .....	4 hours
Area V Electives*** .....	4-6 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Because of prerequisite requirements in Area V, students are encouraged to take MTH 113 in Area III.

\*\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
Meteorology  
See Physics.**

**Consult four-year catalog and/or STARS Transfer Guide.**

**Transfer Guide  
Nutrition**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours

Fine Arts Elective* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective* .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 112 or higher (excluding MTH 116)* # .....	3-4 hours
CHM 104, 105* # or CHM 111, 112* # .....	4 hours
<b>Total</b> .....	<b>11-12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History* .....	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences* .....	6-9 hours
Choose from: ECO 231; ECO 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
HEC 140 Principles of Nutrition .....	3 hours
Area V Electives* .....	13-15 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

#Auburn University requires CHM 111, CHM 112 & MTH 113 in Area III

**Transfer Guide  
Physics**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II .....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature* .....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective*** .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I** .....	4 hours
PHY 213 General Physics with Calculus I .....	4 hours
PHY 214 General Physics with Calculus II .....	4 hours
<b>Total</b> .....	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History\*.....3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

MTH 126 Calculus II ..... 4 hours  
 MTH 227 Calculus III..... 4 hours  
 MTH 237 or MTH 238\*\*\* ..... 3 hours  
 CHM 111 College Chemistry I ..... 4 hours  
 CHM 112\*\*\* College Chemistry II .....0-4 hours  
 CIS 146 or 251\*\*\* .....3 hours  
**Total..... 18-22 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

\*\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
 Political Science**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature\*.....3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamental of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* .....0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**

Natural Sciences\*\* ..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112;  
 PHS 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History\*.....3-6 hours  
 Choose from: HIS 101, 102; HIS 201, 202\*\*\*  
 Social and Behavioral Sciences\*\* .....6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 PSY 200, 210; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

POL 211 American National Government ..... 3 hours  
 POL 220 State and Local Government ..... 3 hours  
 HIS 102 Western Civilization II or  
 HIS 202 United States History II..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives\* .....6-9 hours  
**Total..... 18-21 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

\*\*\*History course(s) chosen in Area IV will NOT fulfill the history requirement for Area V.

**Transfer Guide  
 Poultry Science (AU only)**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**

Literature ..... 3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101; THR 120, 126  
 PHL 206 ..... 3 hours  
**Total..... 12 hours**

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II..... 4 hours  
 MTH 113 or higher (excluding MTH 116) .....3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History..... 6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 Social and Behavioral Sciences\*\* ..... 3 hours  
 Choose from: GEO 100; PSY 200; SOC 200  
 ECO 232 Principles of Microeconomics ..... 3 hours  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

BIO 103 Principles of Biology I ..... 4 hours  
 BIO 104 Principles of Biology II ..... 4 hours  
 CHM 221 Organic Chemistry I\* ..... 4 hours  
 PHY 201 General Physics I\* ..... 4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives .....1-3 hours  
**Total..... 19-22 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Students in the Pre-Vet option should also take CHM 222 Organic Chemistry II and PHY 202 General Physics II.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Associate in Science Degree  
Pre-Medicine & Pre-Dentistry**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Electives**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective*.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206**; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126 ** <i>PHL 206 preferred</i>	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I**.....	4 hours
CHM 111 College Chemistry I.....	4 hours
CHM 112 College Chemistry II.....	4 hours
<b>Total.....</b>	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences*.....	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146.....	3 hours
<b>Select 16-18 semester hours from the following:*</b>	
BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
CHM 221 Organic Chemistry I.....	4 hours
CHM 222 Organic Chemistry II.....	4 hours
PHY 201 or 213.....	4 hours
PHY 202 or 214.....	4 hours
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>61-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

\*\*Because of prerequisite requirements in Area V, students are encouraged to take MTH 113 in Area III.

**Transfer Guide  
Pre-Nursing**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking.....	3 hours
Fine Arts Elective.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**.....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103** Principles of Biology.....	4 hours
CHM 104 or CHM 111**.....	4 hours
MTH 112** Precalculus Algebra.....	3 hours
<b>Total.....</b>	<b>11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, 102 or 201, 202	
PSY 200 General Psychology.....	3 hours
PSY 210 Human Growth and Development.....	3 hours
Social and Behavioral Sciences.....	0-3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses#**

BIO 201 Anatomy and Physiology I.....	4 hours
BIO 202 Anatomy and Physiology II.....	4 hours
BIO 220 Microbiology.....	4 hours
CIS 146 Microcomputer Applications.....	3 hours
MTH 265** Elementary Statistics.....	3 hours
Electives**.....	3 hours
<b>Total.....</b>	<b>21 hours</b>
<b>Total Hours Required for Degree.....</b>	<b>62-63 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

#Students must contact a nursing transfer advisor.

**Transfer Guide  
Pre-Occupational Therapy**

The Occupational Therapy Programs at Alabama State, the University of South Alabama and the University of Alabama at Birmingham are now offered only at the Master's level. Please check the home pages of these institutions for more information regarding these programs.

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature.....	6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	

SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
<b>Total</b> .....	<b>12 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I .....	4 hours
PHY 201 or 213 .....	4 hours
MTH 112 Precalculus Algebra.....	3 hours
<b>Total</b> .....	<b>11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History.....	3 hours
Choose from: HIS 101, 102, 201, or 202	
PSY 200 General Psychology .....	3 hours
PSY 210 Human Growth and Development .....	3 hours
SOC 200 Introduction to Sociology.....	3 hours
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

BIO 201 Human Anatomy and Physiology I.....	4 hours
BIO 202 Human Anatomy and Physiology II.....	4 hours
MTH 265 Elementary Statistics.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
Area V Electives* .....	5-8 hours
<b>Total</b> .....	<b>19-22 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
Pre-Optometry**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective* .....	0-4 hours
Choose from: ART 101, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 201, 212; THR 120, 126	
<b>Total</b> .....	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

MTH 125 Calculus I*** .....	4 hours
CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II.....	4 hours
<b>Total</b> .....	<b>12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*.....	3-6 hours
Choose from: HIS 101, HIS 102, or HIS 201, HIS 202	
PSY 200 General Psychology .....	3 hours
Social and Behavioral Sciences* .....	3-6 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 210; SOC 200, 210	
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications .....	3 hours
<b>Choose 16-18 semester hours from the following:**</b>	
BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
BIO 220 General Microbiology.....	4 hours
CHM 221 Organic Chemistry I.....	4 hours
MTH 265 Elementary Statistics.....	3 hours
PHY 201 or 213 .....	4 hours
PHY 202 or 214 .....	4 hours
<b>Total</b> .....	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b> .....	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

\*\*All of these courses along with a Bachelor’s Degree are required to Apply to UAB School of Optometry.

\*\*\*Because of prerequisite requirements in Area V, students are encouraged to take MTH 113 in Area III.

**Transfer Guide  
Pre-Pharmacy: Auburn University**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total</b> .....	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature.....	3 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Electives* .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
PHL 206 Ethics and Society .....	3 hours
<b>Total</b> .....	<b>12 hours</b>

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II.....	4 hours
MTH 125 Calculus I** .....	4 hours
<b>Total</b> .....	<b>12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History.....	6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
Social and Behavioral Sciences .....	3 hours
Choose from: GEO 100, SOC 200, PSY 200; ECO 232, POL 211	
ECO 232 or POL 211 .....	3 hours
<b>Total</b> .....	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 ..... 3 hours

**Choose 18-22 hours from:**

BIO 103 Principles of Biology I ..... 4 hours  
 BIO 201 Human Anatomy and Physiology I ..... 4 hours  
 BIO 202 Human Anatomy and Physiology II ..... 4 hours  
 CHM 221 Organic Chemistry I ..... 4 hours  
 CHM 222 Organic Chemistry II ..... 4 hours  
 PHY 201 General Physics I ..... 4 hours  
 MTH 265 Elementary Statistics ..... 3 hours

**Total.....18-22 hours**

**Total Hours Required for Degree .....60-64 hours**

\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

\*\*Because of prerequisite requirements in Area V, students are encouraged to take MTH 113 in Area III.

#Any combination of 18-22 hours listed in Area V will meet the requirements for the A.S. Degree.

In addition to the courses above, Genomic Biology BIO 3020, Microbiology BIO 3200, Biochemistry CHM 3200, Immunology BIO 3500, and Mammalian Physiology BIO 5600 are upper level courses that must be completed at a 4 year school before entering Auburn University School of Pharmacy.

**Transfer Guide**

**Pre-Pharmacy: Samford University**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total.....6 hours**

**Area II – Humanities and Fine Arts**

Literature ..... 3 hours  
 Choose from: ENG 251, 252; ENG 261, 262, 271, 272  
 SPH 107 ..... 3 hours  
 Humanities and Fine Arts Electives\* ..... 0-9 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126  
**Total.....6-15 hours**

**Area III – Natural Sciences and Mathematics**

CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
 MTH 125 Calculus I\*\* ..... 4 hours  
**Total.....12 hours**

**Area IV – History, Social, and Behavioral Sciences**

History ..... 3-6 hours  
 Choose from: 3 hours in Western Civilization (HIS 101 or HIS 102) or 6 hours in U.S. History (HIS 201 and HIS 202)  
 Psychology or Sociology ..... 3 hours  
 PSY 200 or SOC 200  
 Social and Behavioral Sciences\* ..... 0-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210  
**Total.....6-18 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 ..... 3 hours

**Choose 18-22 hours:**

BIO 201 Human Anatomy and Physiology I ..... 4 hours  
 BIO 202 Human Anatomy and Physiology II ..... 4 hours  
 BIO 220 General Microbiology ..... 4 hours  
 CHM 221 Organic Chemistry I ..... 4 hours  
 CHM 222 Organic Chemistry II ..... 4 hours  
 MTH 265 Elementary Statistics ..... 3 hours  
 PED Elective\* ..... 2 hours

**Total.....22-28 hours**

**Total Hours Required for Degree .....60-64 hours**

\*Area II and Area IV electives should total nine hours. Consult four-year catalog.

\*\*Because of prerequisite requirements in Area V, students are encouraged to take MTH 113 in Area III.

#Any combination of 18-22 hours listed in Area V will meet the requirements for the A.S. Degree.

**Transfer Guide**

**Pre-Physical Therapy**

**Area I –Written Composition**

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total.....6 hours**

**Area II – Humanities and Fine Arts**

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101; THR 120, 126  
 Humanities and Fine Arts Elective\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

**Area III – Natural Sciences and Mathematics**

MTH 113 or higher (excluding MTH 116)\* ..... 3-4 hours  
 CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
**Total.....11-12 hours**

**Area IV – History, Social and Behavioral Sciences**

History\* ..... 3-6 hours  
 Choose from HIS 101, HIS 102, or HIS 201, HIS 202  
 PSY 200 General Psychology ..... 3 hours  
 PSY 210 Human Growth and Development ..... 3 hours  
 Social and Behavioral Sciences\* ..... 0-3 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211; SOC 200, 210  
**Total.....12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications ..... 3 hours  
 BIO 103 Principles of Biology I ..... 4 hours  
 BIO 201 Human Anatomy and Physiology I ..... 4 hours  
 BIO 202 Human Anatomy and Physiology II ..... 4 hours

**Choose 4-6 hours from:**



BIO 104 Principles of Biology II.....	4 hours
MAT 101 or OAD 211 .....	3 hours
MTH 265 Elementary Statistics.....	3 hours
PHY 201 or 213 .....	4 hours
PHY 202 or 214 .....	4 hours
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

\*\*All of these hours are needed to apply for PT school after completion of a Bachelor's Degree. You may wish to take the additional hours in Area V while at NACC. Consult with your advisor.

### Transfer Guide Pre-Physician Assistant

#### Area I –Written Composition

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

#### Area II – Humanities and Fine Arts

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective*.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective* .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

#### Area III – Natural Sciences and Mathematics

MTH 112 or higher (excluding MTH 116)* .....	3-4 hours
CHM 111 College Chemistry I .....	4 hours
CHM 112 College Chemistry II.....	4 hours
<b>Total.....</b>	<b>11-12 hours</b>

#### Area IV – History, Social and Behavioral Sciences

History*.....	3-6 hours
Choose from HIS 101, HIS 102, or HIS 201, HIS 202	
Social and Behavioral Sciences*.....	6-9 hours
Choose from: ECO 231; ECO 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

#### Area V – Pre-Professional, Major, and Elective Courses\*\*\*

CIS 146 Microcomputer Applications .....	3 hours
<b>Choose 16-18 hours from the following:</b>	
BIO 103 Principles of Biology I.....	4 hours
BIO 104 Principles of Biology II.....	4 hours
BIO 201 General Physics I – Trig Based.....	4 hours
BIO 202 Human Anatomy and Physiology II.....	4 hours
BIO 220 General Microbiology.....	4 hours

MTH 265 Elementary Statistics.....	3 hours
<b>Total.....</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>60-64 hours#</b>

\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

\*\*\*Other Pre-requisites in addition to a Bachelor's Degree to be eligible for this program are:  
 OAD 211 Medical Terminology  
 CHM 221 Organic Chemistry I

#Any combination of 18-22 hours from Area V will meet requirement of AS Degree

Bonus points are given for: Physics (PHY 201), Pathophysiology (BIO 230), Immunology, Genetics, Biochemistry & Pharmacology

### Transfer Guide Pre-Respiratory Therapy/ Cardiopulmonary Sciences

#### Area I – Written Composition

ENG 101 English Composition I.....	3 hours
ENG 102 English Composition II.....	3 hours
<b>Total.....</b>	<b>6 hours</b>

#### Area II – Humanities and Fine Arts

Literature*.....	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking .....	3 hours
Fine Arts Elective**.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective** .....	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total.....</b>	<b>12-13 hours</b>

#### Area III – Natural Sciences and Mathematics

CHM 104, 105 or CHM 111,112 .....	8 hours
MTH 112 or higher (excluding MTH 116).....	3-4 hours
<b>Total.....</b>	<b>11-12 hours</b>

#### Area IV – History, Social, and Behavioral Sciences

History*.....	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
PSY 200 General Psychology.....	3 hours
SOC 200 Introduction to Sociology.....	3 hours
Social and Behavioral Sciences**.....	0-3 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>12 hours</b>

#### Area V – Pre-Professional, Major, and Elective Courses

Students should select 19-23 hours from the courses listed below:

CIS 146 Microcomputer Applications .....	3 hours
BIO 103 Principles of Biology I.....	4 hours
BIO 201 Human Anatomy and Physiology I.....	4 hours
BIO 202 Human Anatomy and Physiology II.....	4 hours
BIO 220 General Microbiology.....	4 hours
MTH 265 Elementary Statistics.....	3 hours

PHY 201 General Physics I ..... 4 hours  
**Total.....19-23 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Pre-Veterinary Medicine

#### Area I – Written Composition

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

#### Area II – Humanities and Fine Arts

Literature ..... 3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 PHL 206 ..... 3 hours  
**Total..... 12 hours**

#### Area III – Natural Sciences and Mathematics

MTH 113 Pre-Calculus Trigonometry ..... 3 hours  
 CHM 111 College Chemistry I ..... 4 hours  
 CHM 112 College Chemistry II ..... 4 hours  
**Total..... 11 hours**

#### Area IV – History, Social, and Behavioral Sciences

History ..... 6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202  
 ECO 232 Principles of Microeconomics ..... 3 hours  
 Social and Behavioral Sciences\*\* ..... 3 hours  
 Choose from: GEO 100; PSY 200; SOC 200  
**Total..... 12 hours**

#### Area V – Pre-Professional, Major, and Elective Courses

CIS 146 Microcomputer Applications ..... 3 hours  
**Choose 16-19 hours from the following:**  
 BIO 103 Principles of Biology I ..... 4 hours  
 BIO 104 Principles of Biology II ..... 4 hours  
 CHM 221 Organic Chemistry I ..... 4 hours  
 CHM 222 Organic Chemistry II ..... 4 hours  
 PHY 201 ..... 4 hours  
 PHY 202 ..... 4 hours  
**Total.....19-22 hours**  
**Total Hours Required for Degree ..... 64 hours**

\*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Psychology

#### Area I – Written Composition

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

#### Area II – Humanities and Fine Arts

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total.....12-13 hours**

#### Area III – Natural Sciences and Mathematics

Natural Sciences\*\* ..... 8 hours  
 Choose from: AST 220; BIO 103, 104; CHM 104, 105, 111, 112;  
 PHS 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* ..... 3-4 hours  
**Total..... 11-12 hours**

#### Area IV – History, Social, and Behavioral Sciences

History\* ..... 3-6 hours  
 Choose from: HIS 101, 102; HIS 201, 202  
 Social and Behavioral Sciences\*\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100; POL 211;  
 PSY 210; SOC 200, 210  
**Total..... 12 hours**

#### Area V – Pre-Professional, Major, and Elective Courses

PSY 200 General Psychology ..... 3 hours  
 Areas II-IV Electives\*\* ..... 6 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives\*\* ..... 6-9 hours  
**Total.....18-21 hours**  
**Total Hours Required for Degree .....60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

### Transfer Guide Radiologic Sciences

The only 4-year (Bachelors Program) in Radiologic Sciences in Alabama is at the University of South Alabama. UAB no longer offers this program. Students should consult the STARS transfer guide and University of South Alabama Catalog.

#### Area I – Written Composition

ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

#### Area II – Humanities and Fine Arts

Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours

Fine Arts Elective**	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I	4 hours
BIO 104 Principles of Biology II	4 hours
MTH 112 or higher (excluding MTH 116)	3-4 hours
<b>Total</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*	3-6 hours
Choose from: HIS 101, 102 or HIS 201, 202	
PSY 200 General Psychology	3 hours
Social and Behavioral Sciences**	3-6 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 210; SOC 200, 210	
<b>Total</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CIS 146 Microcomputer Applications	3 hours
BIO 201 Human Anatomy and Physiology I	4 hours
BIO 202 Human Anatomy and Physiology II	4 hours
MTH 265 Elementary Statistics	3 hours
PHY 120 or PHY 210	4 hours
Area V Electives**	0-3 hours
<b>Total</b>	<b>19-21 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

**Transfer Guide  
Religious Studies**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*	3-6 hours
Choose from: ENG 251, 252; 261, 262; or 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective**	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

Natural Science	8 hours
Choose from: BIO 103, 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)**	3-4 hours
<b>Total</b>	<b>11-12 hours</b>

**Area IV – History, Social and Behavioral Sciences**

History*	3-6 hours
Choose from: HIS 101 and 102 or HIS 201 and 202	
Social and Behavioral Sciences**	6-9 hours
Choose from: ECO 231, 232; GEO 100; POL 211; PSY 200, 210; or SOC 200, 210	
<b>Total</b>	<b>12 hours</b>

**Area V – Pre-Professional, Major, and Elective Course**

CIS 146 Microcomputer Applications	3 hours
REL 100, REL 151, or REL 152#	3 hours
Area V Electives**	9-12 hours
<b>Total</b>	<b>18-21 hours</b>
<b>Total Hours Required for Degree</b>	<b>60-64 hours</b>

\*Must take a 6 semester-hour sequence in either literature or history.

\*\*Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>

#Religion course(s) chosen in Area II will NOT fulfill the history requirement for Area V.

**Transfer Guide  
Social Work**

**Area I – Written Composition**

ENG 101 English Composition I	3 hours
ENG 102 English Composition II	3 hours
<b>Total</b>	<b>6 hours</b>

**Area II – Humanities and Fine Arts**

Literature*	3-6 hours
Choose from: ENG 251, 252; ENG 261, 262; or ENG 271, 272	
SPH 107 Fundamentals of Public Speaking	3 hours
Fine Arts Elective**	3 hours
Choose from: ART 100, 203, 204; MUS 101; THR 120, 126	
Humanities and Fine Arts Elective**	0-4 hours
Choose from: ART 100, 203, 204; ENG 251, 252, 261, 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152; SPA 101, 102, 201, 202; THR 120, 126	
<b>Total</b>	<b>12-13 hours</b>

**Area III – Natural Sciences and Mathematics**

BIO 103 Principles of Biology I	4 hours
Natural Sciences**	4 hours
Choose from: AST 220; BIO 104; CHM 104, 105, 111, 112; PHS 111, 112; PHY 120, 201, 202, 213, 214	
MTH 110 or higher (excluding MTH 116)**	3-4 hours
<b>Total</b>	<b>11-12 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

History*	3-6 hours
Choose from: HIS 101, 102; HIS 201, 202	

SOC 200 Introduction to Sociology ..... 3 hours  
 PSY 200 General Psychology ..... 3 hours  
 Social and Behavioral Sciences\*\* ..... 0-3 hours  
 Choose from: ECO 232; GEO 100; POL 211;  
 PSY 210; SOC 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**  
 MTH 265 Elementary Statistics ..... 3 hours  
 ECO 231 Macroeconomics ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Areas II-IV Electives\*\* ..... 3-6 hours  
 Area V Electives\*\* ..... 6-9 hours  
**Total..... 18-21 hours**  
**Total Hours Required for Degree ..... 60-64 hours**

\*Must take a 6 semester-hour sequence in either literature or history.  
 \*\*Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>

**Transfer Guide  
 Speech  
 See Communication Studies.**

Consult four-year catalog and/or STARS Transfer Guide.

**Transfer Guide  
 Speech Pathology**

**Area I – Written Composition**  
 ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**  
 Literature\* ..... 3-6 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Elective\*\* ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 Humanities and Fine Arts Elective\*\* ..... 0-4 hours  
 Choose from: ART 100, 203, 204; ENG 251, 252, 261,  
 262, 271, 272; MUS 101; PHL 206; REL 100, 151, 152;  
 SPA 101, 102, 201, 202; THR 120, 126  
**Total..... 12-13 hours**

**Area III – Natural Sciences and Mathematics**  
 BIO 103 Principles of Biology I ..... 4 hours  
 Natural Sciences\*\* ..... 4 hours  
 Choose from: AST 220; BIO 104; CHM 104, 105, 111, 112; PHS  
 111, 112; PHY 120, 201, 202, 213, 214  
 MTH 110 or higher (excluding MTH 116)\*\* ..... 3-4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**  
 History\* ..... 3-6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202

Social and Behavioral Sciences\*\* ..... 6-9 hours  
 Choose from: ECO 231, 232; GEO 100;  
 POL 211; SOC 200, 210  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**  
 PSY 200 General Psychology ..... 3 hours  
 PSY 210 Human Growth and Development ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area V Electives\*\* ..... 9-12 hours  
**Total..... 18-21 hours**  
**Total Hours Required for Degree ..... 60-64 hours**

\* Must take a 6 semester-hour sequence in either literature or history.  
 \*\* Consult four-year catalog and/or STARS Transfer Guide:  
<http://stars.troy.edu>



Trouper, the NACC Mascot

**Transfer Guide  
 Wildlife Ecology (AU only)**

**Area I – Written Composition**  
 ENG 101 English Composition I ..... 3 hours  
 ENG 102 English Composition II ..... 3 hours  
**Total..... 6 hours**

**Area II – Humanities and Fine Arts**  
 Literature ..... 3 hours  
 Choose from: ENG 251, 252; ENG 261, 262; or  
 ENG 271, 272  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Fine Arts Electives# ..... 3 hour  
 Choose from: ART 100, 203, 204; MUS 101;  
 THR 120, 126  
 PHL 206 ..... 3 hours  
**Total..... 12 hours**

**Area III – Natural Sciences and Mathematics**  
 MTH 120 or 125\* ..... 3-4 hours  
 BIO 103 Principles of Biology I ..... 4 hours  
 BIO 104 Principles of Biology II ..... 4 hours  
**Total..... 11-12 hours**

**Area IV – History, Social, and Behavioral Sciences**  
 History ..... 6 hours  
 Choose from: HIS 101, 102 or HIS 201, 202

Northeast

ECO 231, 232, or POL 211 ..... 3 hours  
Social and Behavioral Sciences# ..... 3 hours  
    Choose from: GEO 100; PSY 200; SOC 200  
**Total..... 12 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

CHM 104, 105 (*preferred*) or CHM 111, 112 ..... 8 hours  
CIS 146 Microcomputer Applications ..... 3 hours  
BUS 271 or MTH 265..... 3 hours

PHY 201\*\* or PHY 213..... 4 hours  
Area V Electives# ..... 0-4 hours  
**Total.....18-22 hours**  
**Total Hours Required for Degree .....60-64 hours**

\* MTH 112, 113 or appropriate placement scores are prerequisites for MTH 125.

\*\* MTH 113 or appropriate placement score is a prerequisite for PHY 201.

#Consult four-year catalog and/or STARS Transfer Guide:

<http://stars.troy.edu>



**GENERAL REQUIREMENTS FOR THE  
ASSOCIATE IN APPLIED SCIENCE  
(AAS) DEGREE**

The Associate in Applied Science Degree is an undergraduate award designed for students planning to specialize in technical, business, semi-professional, and supervisory fields that are career oriented. The outline below provides the general guidelines from Board Policy and is used by the college to design specific degree programs. A student pursuing an AAS degrees must follow the specific requirements for the program as outlined in the catalog.

**Area I: Written Composition .....3-6 Credit Hours**

- A course or course combination that promotes effective written and oral communication skills.

**Area II: Humanities and Fine Arts.....3-6 Credit Hours**

- In addition to Literature, disciplines include but are not limited to: Area/Ethnic Studies, Art and Art History, Foreign Languages, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.

**Area III: Natural Science and  
Mathematics.....6-11 Credit Hours**

- In addition to Mathematics, disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.
- A minimum of 3 hours in Mathematics required.

**Area IV: History, Social, and  
Behavioral Sciences.....3-6 Credit Hours**

- In addition to History, the Social and Behavioral Sciences include, but are not limited to: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.

**Area I-IV: General Education  
Requirements.....15-29 Credit Hours**

**Area V: Technical Core, Technical  
Concentration, and Electives.....31-61 Credit Hours**

- Area V courses are courses appropriate to the degree requirements, occupational or technical specialty requirements, core courses, and electives.

**Total Hours Required .....60-76 Credit Hours**

**GENERAL REQUIREMENTS FOR THE  
CERTIFICATE (CER)**

The certificate award is designed for students seeking a specialized set of skills for employment or professional advancement. The outline below provides the general guidelines from Board Policy and is used by the college to design specific certificate programs. A student pursuing any of the certificate programs must follow the specific requirements for the program as outlined in the catalog.

**Area I: Written Composition .....3-6 Credit Hours**

- A minimum of one written composition course which may have a discipline specific prefix other than COM or ENG or the integration of written communication proficiencies within a required discipline-specific course(s).

**Area II: Humanities and Fine Arts.....0-6 Credit Hours**

**Area III: Natural Science and  
Mathematics.....3-7 Credit Hours**

- A minimum of one mathematics course which may have a discipline specific prefix other than MAH or MTH or the integration of mathematics proficiencies within a required discipline-specific course(s).

**Area IV: History, Social, and  
Behavioral Sciences.....0 Credit Hours**

**Area I-IV: General Education  
Requirements.....6-19 Credit Hours**

**Area V: Technical Core, Technical  
Concentration, and Electives.....11-54 Credit Hours**

**Total Hours Required .....30-60 Credit Hours**

**GENERAL REQUIREMENTS FOR THE  
CAREER TECHNICAL EDUCATION SHORT  
TERM CERTIFICATE (STC)**

The career technical education short term certificate award is designed to equip students with a focused set of skills for an entry level position in business or industry. The outline below provides the general guidelines from Board Policy and is used by the college to design specific career technical education short term certificate programs. A student pursuing any of the short term certificate programs must follow the specific requirements for the program as outlined in the catalog.

**Area I: Written Composition .....0-3 Credit Hours**

**Area II: Humanities and Fine Arts.....0 Credit Hours**

**Area III: Natural Science and  
Mathematics.....0-3 Credit Hours**

**Area IV: History, Social, and  
Behavioral Sciences.....0 Credit Hours**

**Area I-IV: General Education  
Requirements.....0-6\* Credit Hours**

**Area V: Technical Core, Technical  
Concentration, and Electives.....9-29 Credit Hours**

**Total Hours Required .....9-29 Credit Hours**

*\*Certificates with 6 hours of general education credits, must have a minimum of 15 total credit hours.*

## AIR CONDITIONING AND REFRIGERATION

### Associate in Applied Science Degree Air Conditioning and Refrigeration

#### Area I – Written Composition

ENG 101 English Composition I .....	3 hours
<b>Total.....</b>	<b>3 hours</b>

#### Area II – Humanities and Fine Arts

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

#### Area III – Natural Sciences and Mathematics

CIS 146 Microcomputer Applications .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science, or CIS Elective.....	3-4 hours
<b>Total.....</b>	<b>9-11 hours</b>

#### Area IV – History, Social and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100, HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

#### Area V – Pre-Professional, Major, and Elective Course

##### Technical Core

ACR 111 Principles of Refrigeration .....	3 hours
ACR 112 HVACR Service Procedures .....	3 hours
ACR 113 Refrigeration and Piping Practices .....	3 hours
ACR 121 Principles of Electricity for HVACR .....	3 hours
ACR 122 HVACR Electric Circuits .....	3 hours
ACR 123 HVAC/R Electrical Components .....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
Cooperation Education Electives.....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
Technical Specialty .....	24 hours
ACR courses by advisement	
<b>Total Area V.....</b>	<b>51 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>72-74 hours</b>

#### Short-Term Certificate in Air Conditioning and Refrigeration

ACR 111 Principles of Refrigeration .....	3 hours
ACR 112 HVACR Service Procedures .....	3 hours
ACR 113 Refrigeration and Piping Practices .....	3 hours
ACR 121 Principles of Electricity for HVACR .....	3 hours
ACR 122 HVACR Electric Circuits.....	3 hours
ACR 123 HVAC/R Electrical Components .....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>21 hours</b>

#### Certificate in Air Conditioning and Refrigeration

ENG 101 English Composition .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours

MTH 116 Mathematical Applications or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
ACR 111 Principles of Refrigeration .....	3 hours
ACR 112 HVACR Service Procedures .....	3 hours
ACR 113 Refrigeration and Piping Practices .....	3 hours
ACR 121 Principles of Electricity for HVACR .....	3 hours
ACR 122 HVACR Electric Circuits.....	3 hours
ACR 123 HVAC/R Electrical Components .....	3 hours
ACR courses by advisement.....	18 hours
<b>Total Hours Required for Certificate .....</b>	<b>54-55 hours</b>

### Suggested Career Pathway in Air Conditioning and Refrigeration

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

#### Semester 1

ACR 111 Principles of Refrigeration .....	3 hours
ACR 112 HVACR Service Procedures .....	3 hours
ACR 113 Refrigeration Piping Practices .....	3 hours
ENG 101 English Composition I .....	3 hours
WKO 110 NCCER Core .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for certifications in NCCER and EPA 608*

#### Semester 2

ACR 121 Principles of Electricity for HVACR .....	3 hours
ACR 122 HVACR Electric Circuits .....	3 hours
ACR 123 HVACR Electrical Components .....	3 hours
MTH 116 or any 100-level MTH .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for a Short-Term Certificate in Air Conditioning and Refrigeration and HVAC Excellence Electrical Certification*

#### Semester 3

ACR 147 Refrigerant Transition and Rec. Theory .....	3 hours
ACR 134 Ice Machines .....	3 hours
ACR 203 Commercial Refrigeration .....	3 hours
ACR 205 Duct Design and Air Distribution.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

#### Semester 4

ACR 148 Heat Pumps.....	3 hours
ACR 210 Troubleshooting HVACR Systems .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
Area IV Elective.....	3 hours
WKO 106 Workplace Essentials.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a Certificate in Air Conditioning and Refrigeration, HVAC Excellence Troubleshooting Certification, National Career Readiness Certificate and OSHA 10 Hour Card*

#### Semester 5

ACR 128 Heat Load Calculations.....	3 hours
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ACR 200 Review For Contractors Exam..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153,  
 ADM 154

Area II Humanities and Fine Arts Elective ..... 3 hours  
 Area IV Social and Behavioral Science Elective..... 3 hours

**Total..... 15 hours**

*\*Eligible to sit for the State of Alabama Heating and Air Conditioning Contractors Exam*

**Eligible for AAS degree in Air Conditioning and Refrigeration**

## **BUILDING CONSTRUCTION & CARPENTRY**

### **Short-Term Certificate in Carpentry – Level 1**

WKO 110 NCCER Core ..... 3 hours  
 CAR 111 Construction Basics..... 3 hours  
 CAR 112 Floors, Walls, and Site Prep ..... 3 hours  
 CAR 113 Floors, Walls, and Site Prep Lab..... 3 hours  
 CAR 114 Construction Basics Lab ..... 3 hours

**Total Hours Required for Short-Term Certificate ..... 15 hours**

### **Short-Term Certificate in Carpentry – Level 2**

CMT 102 Construction Blueprint Reading..... 3 hours  
 CAR 122 Concrete and Forming ..... 3 hours  
 CAR 123 Concrete and Forming Lab ..... 3 hours  
 BUC 131 Interior and Exterior Finishes ..... 3 hours  
 MAS 111 Masonry Fundamentals..... 3 hours  
 CAR 226 Metal Framing ..... 3 hours

**Total Hours Required for Short-Term Certificate ..... 18 hours**

## **BUSINESS ADMINISTRATION**

### **Associate in Applied Science Degree Business Administration**

#### **Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

#### **Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Humanities and Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101, PHL 206;  
 REL 100, 151, 152; SPA 201, 202; THR 120, 126  
**Total..... 6 hours**

#### **Area III – Natural Sciences and Mathematics**

MTH 116 or any 100-level MTH..... 3-4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
**Total..... 6-7 hours**

#### **Area IV – History, Social and Behavioral Sciences**

Area IV Elective..... 3 hours  
 Choose from: GEO 100, HIS 101, 102, 201, 202; POL 211;  
 PSY 200, 210; SOC 200, 210  
**Total..... 3 hours**

### **Area V – Pre-Professional, Major, and Elective Courses**

BUS 241 Principles of Accounting I..... 3 hours  
 BUS 242 Principles of Accounting II ..... 3 hours  
 BUS 263 The Legal and Social Environment of Business ..... 3 hours  
 BUS 275 Principles of Management..... 3 hours  
 ECO 231 Principles of Macroeconomics..... 3 hours  
 ECO 232 Principles of Microeconomics ..... 3 hours  
 BUS 245 or BUS 246..... 3 hours  
 BUS 248 Managerial Accounting ..... 3 hours  
 BUS 215 Business Communication..... 3 hours  
 ACC 129 Individual Income Taxes..... 3 hours  
 ACT 249 Payroll Accounting..... 3 hours  
 Elective Courses by Advisement ..... 15 hours  
**Total Area V..... 48 hours**  
**Total Hours Required for Degree ..... 66-67 hours**

## **COSMETOLOGY**

*See Salon and Spa Management*

## **CYBERSECURITY**

*See Computer Information Systems*

## **COMPUTER INFORMATION SYSTEMS**

### **Associate in Applied Science Degree Computer Information Systems**

#### **Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

#### **Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Humanities and Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101; PHL 206;  
 REL 100, 151, 152; SPA 201, 202; THR 120, 126  
**Total..... 6 hours**

#### **Area III – Natural Science and Mathematics**

CIS 146 Microcomputer Applications ..... 3 hours  
 MTH 100 or higher (excluding MTH 110 & MTH 116) ..... 3-4 hours  
 Math, Science or CIS Elective ..... 3-4 hours  
**Total..... 9-11 hours**

#### **Area IV – History, Social, and Behavioral Sciences**

Area IV Elective..... 3 hours  
 Choose from: ECO 231, 232; GEO 100; HIS 101, 102,  
 201, 202; POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 3 hours**

### **Area V – Pre-Professional, Major, and Elective Courses**

CIS 149 Introduction to Computers..... 3 hours  
 CIS 150 Introduction to Computer Programming & Logic ..... 3 hours  
 CIS 199 Network Communications ..... 3 hours  
 CIS 268 Software Support ..... 3 hours  
 CIS 269 Hardware Support..... 3 hours  
 WKO 106 Workplace Skills..... 3 hours



CIS Electives.....	9-15 hours
CIS 212 or CIS 251.....	3-6 hours
MTH 112 or higher (excluding MTH 116).....	3 hours
Business Electives or OAD 101, 103, 243.....	3-6 hours
<b>Total Area V.....</b>	<b>42 hours</b>
<b>Total Hours for Degree.....</b>	<b>63-65 hours</b>

**Short-Term Certificate in Computer Information Systems  
– Computer Graphics and Web Design**

CIS 151 Graphics for the World Wide Web.....	3 hours
CIS 207 Web Development.....	3 hours
CIS 208 Intermediate Web Development.....	3 hours
CIS 209 Advanced Web Development.....	3 hours
CIS 199 Introduction to Networking Communication.....	3 hours
CIS Elective.....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>21 hours</b>

**Short-Term Certificate in Computer Information Systems  
– Office Technology Support**

CIS 149 Introduction to Computers.....	3 hours
CIS 146 Microcomputer Applications.....	3 hours
CIS 199 Introduction to Networking Communication.....	3 hours
CIS 207 Web Development.....	3 hours
CIS 268 Software Support.....	3 hours
CIS 269 Hardware Support.....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>18 hours</b>

**Short-Term Certificate in Computer Information Systems –  
Cybersecurity**

Two options are offered

Option 1 is for those who have expertise, experience, and certification as a network administrator but need additional education for cybersecurity. Option 2 assumes no experience as a network administrator.

**OPTION 1**

**Short-Term Certificate in Computer Information Systems –  
Security + Add-on**

*To be eligible, students must show proof of having passed IC<sup>3</sup>, A+ and Network+ certifications.*

CIS 246 Ethical Hacking.....	3 hours
CIS 280 Network Security.....	3 hours
CIS 282 Computer Forensics.....	3 hours
CIS 296 Special Topics.....	3 hours
<b>Total Hours Required for Certificate.....</b>	<b>12 hours</b>

**OPTION 2**

**Short-Term Certificate in Computer Information Systems –  
Cybersecurity Technician**

CIS 146 Microcomputer Applications.....	3 hours
CIS 149 Introduction to Computers.....	3 hours
CIS 199 Network Communications.....	3 hours
CIS 246 Ethical Hacking.....	3 hours
CIS 268 Software Support.....	3 hours
CIS 269 Hardware Support.....	3 hours
CIS 280 Network Security.....	3 hours
CIS 282 Computer Forensics.....	3 hours
CIS 296 Special Topics.....	3 hours
<b>Total Hours Required for Certificate.....</b>	<b>27 hours</b>

**CHILD DEVELOPMENT**

**Associate in Applied Science Degree  
Child Development**

*As required by licensed childcare facilities and state funded preschools, the child development student is required to submit to a criminal background check prior to completing field experiences and the practical teaching experience. Students who cannot clear a background check will not be allowed to complete the necessary experiences for all child development courses and would be required to withdraw from the program.*

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking.....	3 hours
Humanities and Fine Arts Elective.....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications.....	3 hours
Math, Science or CIS Elective.....	3-4 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

PSY 200 or SOC 200 General Psychology or Introduction to Sociology.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

CHD 100 Introduction to Early Care & Education of Children.....	3 hours
CHD 201 Child Growth & Development Principles.....	3 hours
CHD 202 Children’s Creative Experiences.....	3 hours
CHD 203 Children’s Literature & Language Development.....	3 hours
CHD 204 Methods & Materials for Teaching Children.....	3 hours
CHD 205 Program Planning for Education.....	3 hours
CHD 206 Children’s Health & Safety.....	3 hours
CHD 209 Infant and Toddler Education Programs.....	2 hours
CHD 210 Educating Exceptional Children.....	3 hours
CHD 215 Supervised Practical Experience in Child Development.....	3 hours
CHD 217 Math and Science for Young Children.....	3 hours
Program Electives.....	8-9 hours
Choose from: CHD 208, 211, 212, 214, 220, 221, 224; SPA 101, 102, 201, 202; PHL 206; PSY 200, 210; SOC 200, 210; BUS 215	
EMS 100 Cardiopulmonary Resuscitation I.....	1 hour
WKO 106 Workplace Skills.....	3 hours
<b>Total Area V.....</b>	<b>44-45 hours</b>
<b>Total Hours for Degree.....</b>	<b>65-68 hours</b>

**Short-Term Certificate in Infant/Toddler**

CHD 100 Introduction to Early Care and Education.....	3 hours
CHD 206 Children’s Health and Safety.....	3 hours
CHD 209 Infant and Toddler Education Programs.....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>9 hours</b>

**Short-Term Certificate in Preschool/Family Child Care**

CHD 100 Introduction to Early Care and Education .....	3 hours
CHD 206 Children’s Health and Safety .....	3 hours
CHD 204 Materials and Methods for Teaching Young Children .....	3 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>9 hours</b>

**Short-Term Certificate in Early Childhood Education**

CHD 206 Children’s Health and Safety .....	3 hours
CHD 209 Infant and Toddler Education Programs .....	3 hours
Choose from: CHD 203, 204, 205, or 215 .....	3 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>9 hours</b>

**Short-Term Certificate in Child Development**

CHD 201 Child Growth and Development .....	3 hours
CHD 209 Program Planning for Educating Young Children .....	3 hours
CHD 210 Educating Exceptional Children .....	3 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>9 hours</b>

**CRIMINAL JUSTICE**

**Associate in Applied Science Degree  
Criminal Justice**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total .....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total .....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
Math, Science, or CIS Elective .....	3-4 hours
<b>Total .....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective .....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total .....</b>	<b>3 hours</b>

**Area V – Technical Requirements**

CRJ 100 Introduction to Criminal Justice .....	3 hours
CRJ 110 Introduction to Law Enforcement .....	3 hours
WKO 106 Workplace Skills .....	3 hours
CRJ 280 Internship in Criminal Justice .....	3 hours
CRJ Electives (by advisement) .....	24-30 hours
Other Electives .....	0-6 hours
Choose from: POL 211, 220; SOC 200, 210; PSY 200, 210	
<b>Total Area V .....</b>	<b>42 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-64 hours</b>

**Short-Term Certificate in Criminal Justice**

CRJ 100 Introduction to Criminal Justice .....	3 hours
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CRJ Electives by advisement .....	12 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>15 hours</b>

**Certificate in Law Enforcement**

ENG 101 English Composition I .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
CRJ 100 Introduction to Criminal Justice .....	3 hours
CRJ 110 Introduction to Law Enforcement .....	3 hours
CRJ Electives by advisement .....	21 hours
WKO 106 Workplace Skills .....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>42-43 hours</b>

**CULINARY ARTS**

**Short-Term Certificate in Culinary Arts**

CUA 110 Basic Food Preparation .....	3 hours
CUA 111 Foundation in Nutrition .....	3 hours
CUA 112 Sanitation, Safety & Service .....	2 hours
CUA 120 Basic Food Preparation Lab .....	2 hours
CUA 204 Foundations of Baking .....	3 hours
CUA Electives .....	9 hours
Select from:	
CUA 114 Meal Management .....	3 hours
CUA 115 Advanced Food Prep .....	3 hours
CUA 130 Chocolate & Truffles .....	3 hours
CUA 203 Stocks & Sauces .....	3 hours
CUA 217 Introduction to Pastries .....	2 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>22 hours</b>

**DRAFTING AND DESIGN  
TECHNOLOGY**

**Associate in Applied Science Degree  
Drafting and Design Technology**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total .....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total .....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

CIS 146 Microcomputer Applications .....	3 hours
MTH 116 or any 100-level MTH .....	3-4 hours
Math, Science, or Computer Science .....	3-4 hours
<b>Total .....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective .....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total .....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

ADM 101 Precision Measurement.....	3 hours
Technical Cooperative Education .....	3 hours
ADM 150, 151, 152, 153, 154	
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
ADM 114 Design Innovation.....	3 hours
DDT 104 Basic Computer-Aided Drafting & Design .....	3 hours
DDT 117 Manufacturing Processes .....	3 hours
DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
DDT 220 Advanced Technical Drawing.....	3 hours
DDT 225 Structural Steel Drafting.....	3 hours
DDT 236 Design Project.....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM).....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
3D Elective Sequence .....	6 hours
MDT 147 and MDT 187 (Inventor)	
or MDT 202 and MDT 252 (SolidWorks)	
<b>Total Area V.....</b>	<b>48 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>69-71 hours</b>

**Short-Term Certificate in Drafting and Design Technology**

**– 3D Solid Modeling**

ADM 101 Precision Measurement.....	3 hours
ADM 114 Design Innovation.....	3 hours
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MDT 147 or MDT 202.....	3 hours
<b>Total Hours Required for the Short-Term Certificate.....</b>	<b>15 hours</b>

**Certificate in Drafting and Design Technology – 3D Solid Modeling**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
ADM 101 Precision Measurement.....	3 hours
ADM 114 Design Innovation.....	3 hours
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MDT 147 or MDT 202.....	3 hours
MDT 187 or MDT 252.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total Hours Required for the Certificate.....</b>	<b>33-34 hours</b>

**Short-Term Certificate in Drafting and Design Technology**

**– CADD**

ADM 101 Precision Measurement.....	3 hours
DDT 104 Basic Computer Aided Drafting and Design .....	3 hours
DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>12 hours</b>

**Certificate in Drafting and Design Technology – CADD**

ENG 101 English Composition .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
ADM 101 Precision Measurement.....	3 hours

DDT 104 Basic Computer Aided Drafting and Design .....	3 hours
DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM).....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>30-31 hours</b>

**Short-Term Certificate in Drafting and Design Technology**

**– Additive Manufacturing**

ADM 101 Precision Measurement.....	3 hours
ADM 114 Design Innovation.....	3 hours
DDT 117 Manufacturing Processes .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM).....	3 hours
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
MDT 147 or MDT 202.....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>21 hours</b>

**Certificate in Drafting and Design Technology**

**– Additive Manufacturing**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
ADM 101 Precision Measurement.....	3 hours
ADM 114 Design Innovation.....	3 hours
DDT 117 Manufacturing Processes .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM).....	3 hours
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
MDT 147 or MDT 202.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>36-37 hours</b>

**Short-Term Certificate in Drafting and Design Technology**

**– Technical Drawing**

ADM 101 Precision Measurement.....	3 hours
DDT 104 Basic Computer Aided Drafting and Design .....	3 hours
DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
DDT 220 Advanced Technical Drawing.....	3 hours
DDT 225 Structural Steel Drafting.....	3 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>18 hours</b>

**Certificate in Drafting and Design Technology**

**– Technical Drawing**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
ADM 101 Precision Measurement.....	3 hours
DDT 104 Basic Computer Aided Drafting and Design .....	3 hours
DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
DDT 220 Advanced Technical Drawing.....	3 hours
DDT 225 Structural Steel Drafting .....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total Hours Required for the Certificate.....</b>	<b>33-34 hours</b>

## Suggested Career Pathway in Drafting & Design Technology

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

### Semester 1

ADM 101 Precision Measurement.....	3 hours
DDT 104 Basic Computer Aided Drafting and Design .....	3 hours
DDT 117 Manufacturing Processes .....	3 hours
MTH 116 Mathematical Applications or 100 level Math.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours

**Total..... 15 hours**

*\*Eligible for a certification in NCCER, MSSC, or AUTOCAD Certified User Credential*

### Semester 2

DDT 124 Basic Technical Drawing .....	3 hours
DDT 144 Basic 3D Modeling .....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM) .....	3 hours
ENG 101 English Composition I.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours

**Total..... 15 hours**

*\*Eligible for a Short-Term Certificate in CADD and NOCTI CAD Certification*

### Semester 3

ADM 114 Design Innovations .....	3 hours
ADM 160 Additive Manufacturing Production Techniques .....	3 hours
DDT 225 Structural Steel Drafting.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
Area III Math, Science or Computer Science elective.....	3 hours

**Total..... 15 hours**

*\*Eligible for a Certificate in CADD*

### Semester 4

DDT 220 Advanced Technical Drawing.....	3 hours
3D I – ELEC First 3D Elective (MDT 147 or MDT 202) .....	3 hours
WKO 106 Workplace Essentials.....	3 hours
Area II Elective.....	3 hours

**Total..... 12 hours**

*\*Eligible for Technical Drawing Short-Term Certificate and Certificate; 3D Modeling Short-Term Certificate; Additive Manufacturing Short-Term Certificate and Certificate; NOCTI Mechanical Drafting Certification; National Career Readiness Certificate and OSHA 10 Hour Card*

### Semester 5

3D II – ELEC Second 3D Elective (MDT 187 or MDT 252).....	3 hours
DDT 236 Design Project.....	3 hours
Cooperative Education Electives .....	3 hours
.....Choose from: ADM 150, ADM 151, ADM 152, ADM 153	
.....ADM 154	
Area IV Social and Behavioral Science Elective.....	3 hours

**Total..... 12 hours**

*\*Eligible for Inventor Certified User or Solidworks Associate Credential; 3D Modeling Certificate*

**Eligible for AAS degree in Drafting and Design Technology**

## EMERGENCY MEDICAL SERVICES

### Associate in Applied Science Degree Emergency Medical Services

The Northeast Alabama Community College Emergency Medical Services Education Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.com) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

#### Area I – Written Composition

ENG 101 English Composition I.....	3 hours
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**Total..... 3 hours**

#### Area II – Humanities and Fine Arts

SPH 107 Fundamentals of Public Speaking .....	3 hours
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Humanities and Fine Arts Elective .....

Choose from: ART 100, 203, 204; MUS 101; PHL 206\*\*; REL 100, 151, 152; SPA 201, 202; THR 120, 126

*\*\*PHL 206 is recommended.*

**Total..... 6 hours**

#### Area III – Natural Science and Mathematics

BIO 201 Human Anatomy and Physiology I.....	4 hours
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BIO 202 Human Anatomy and Physiology II.....	4 hours
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MTH 116 or any 100-level MTH.....	3-4 hours
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**Total..... 11-12 hours**

#### Area IV – History, Social and Behavioral Sciences

Area IV Elective.....	3 hours
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Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200\*\*, 210

**Total..... 3 hours**

*\*\*SOC 200 is recommended*

#### Area V – Pre-Professional, Major, and Elective Courses

EMS 106 Medical Terminology for Health Professionals .....	2 hours
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EMS 118 Emergency Medical Technician.....	9 hours
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EMS 119 Emergency Medical Technician Clinical .....	1 hour
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EMS 240 Paramedic Operations.....	2 hours
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EMS 241 Paramedic Cardiology .....	3 hours
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EMS 242 Paramedic Patient Assessment.....	2 hours
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EMS 257 Paramedic Applied Pharmacology.....	2 hours
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EMS 243 Paramedic Pharmacology .....	1 hour
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EMS 244 Paramedic Clinical I .....	1 hour
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EMS 245 Paramedic Medical Emergencies.....	3 hours
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EMS 246 Paramedic Trauma Management .....	3 hours
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EMS 247 Paramedic Special Populations.....	2 hours
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EMS 248 Paramedic Clinical II .....	3 hours
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EMS 253 Paramedic Transition to the Workforce .....	2 hours
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EMS 254 Advanced Competencies for Paramedic .....	2 hours
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EMS 255 Paramedic Field Preceptorship .....	5 hours
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EMS 256 Paramedic Team Preceptorship.....	1 hour
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EMS Elective .....	0-7 hours
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**Total Area V..... 44 hours**

**Total Hours Required for Degree .....67-75 hours**

**Emergency Medical Technician (EMT)  
(Short-Term Certificate)**

EMS 106 Medical Terminology for Health Professionals .....	2 hours
EMS 118 Emergency Medical Technician (EMT).....	9 hours
EMS 119 EMT Clinical .....	1 hour
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>12 hours</b>

**Advanced EMT (AEMT) (Short-Term Certificate)**

*Current Alabama EMT license is required for registration.*

EMS 155 Advanced Emergency Medical Technician (AEMT).....	7 hours
EMS 156 AEMT Clinical.....	2 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>9 hours</b>

**Paramedic (Certificate)**

*Current AL EMT license and EMS 189 are required for registration.*

ENG 101 English Composition I .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
EMS 189 .....	4 hours
EMS 240 Paramedic Operations.....	2 hours
EMS 241 Paramedic Cardiology .....	3 hours
EMS 242 Paramedic Patient Assessment.....	2 hours
EMS 243 Paramedic Pharmacology .....	1 hour
EMS 244 Paramedic Clinical I .....	1 hour
EMS 245 Paramedic Medical Emergencies.....	3 hours
EMS 246 Paramedic Trauma Management .....	3 hours
EMS 247 Paramedic Special Populations.....	2 hours
EMS 248 Paramedic Clinical II .....	3 hours
EMS 253 Paramedic Transition to the Workforce .....	2 hours
EMS 254 Advanced Competencies for Paramedic .....	2 hours
EMS 255 Paramedic Field Preceptorship .....	5 hours
EMS 256 Paramedic Team Leadership.....	1 hour
EMS 257 Paramedic Applied Pharmacology.....	2 hours
<b>Total Hours Required for Certificate .....</b>	<b>42-43 hours</b>

**Suggested Career Pathway**

**in Emergency Medical Services – Paramedic**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

EMS 106 Medical Terminology for Health Professionals .....	2 hours
EMS 118 Emergency Medical Technician.....	9 hours
EMS 119 Emergency Medical Technician Clinical .....	1 hour
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for a Short-Term Certificate in Emergency Medical Services-Basic EMT and to sit for NREMT EMT Certification*

**Semester 2**

ENG 101 English Composition I .....	3 hours
BIO 201 Human Anatomy and Physiology I .....	4 hours
MTH 116 or any 100-level MTH.....	3 hours
Area II Humanities & Fine Arts Elective.....	3 hours
<b>Total.....</b>	<b>13 hours</b>

**Semester 3**

EMS 240 Paramedic Operations.....	2 hours
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EMS 241 Paramedic Cardiology .....	3 hours
EMS 242 Paramedic Patient Assessment.....	2 hours
EMS 257 Paramedic Applied Pharmacology.....	2 hours
EMS 243 Paramedic Pharmacology .....	1 hours
EMS 244 Paramedic Clinical I .....	1 hours
BIO 202 Human Anatomy and Physiology II.....	4 hours
<b>Total.....</b>	<b>15 hours</b>

**Semester 4**

EMS 245 Paramedic Medical Emergencies.....	3 hours
EMS 246 Paramedic Trauma Management .....	3 hours
EMS 247 Paramedic Special Populations.....	2 hours
EMS 248 Paramedic Clinical II .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
<b>Total.....</b>	<b>14 hours</b>

**Semester 5**

EMS 253 Paramedic Transition to the Workforce .....	2 hours
EMS 254 Advanced Competencies for Paramedic .....	2 hours
EMS 255 Paramedic Field Preceptorship .....	5 hours
EMS 256 Paramedic Team Preceptorship.....	1 hour
Area IV History, Social, and Behavioral Science .....	3 hours
<b>Total.....</b>	<b>13 hours</b>

*\*Eligible for certifications in: Advanced Cardiac Life Support, Pediatric Advanced Life Support, Pre-Hospital Trauma Life Support, Advanced Medical Life Support, Emergency Pediatric Care and The Difficult Airway Course EMS*  
*\*Eligible to sit for NREMT Paramedic Certification*

**Eligible for AAS degree in Emergency Medical Services-Paramedic**

**ENGINEERING TECHNICIAN**

**Associate in Applied Science Degree  
Engineering Technician**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 112 PreCalculus Algebra.....	3 hours
CIS 146 or CIS 251 .....	3 hours
PHY 201 General Physics I Trig-Based.....	4 hours
<b>Total.....</b>	<b>10 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

EGR 101 Engineering Foundations .....	3 hours
ENT 106 Principles of Engineering Tech .....	3 hours
ENT 140 Applied Statics .....	3 hours
ENT 221 Quality and Productivity .....	3 hours
ENT 222 Introduction to Project Management.....	3 hours
ILT 160 DC Fundamentals .....	3 hours
ILT 161 AC Fundamentals .....	3 hours
INT 119 Principles of Mechanical Measurement and Technical Drawing .....	3 hours
MTH 113 PreCalculus Trigonometry .....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
DDT or MDT Elective Sequence.....	6 hours
Program advisor-approved electives.....	12 hours
<b>Total Area V.....</b>	<b>54 hours</b>
<b>Total Hours Required for the AAS Degree .....</b>	<b>76 hours</b>

**Short-Term Certificate in Engineering Technician**

EGR 101 Engineering Foundations .....	3 hours
ENT 106 Principles of Engineering Technology .....	3 hours
INT 119 Principles of Mech. Measurement & Technical Drawing.....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
Program advisor-approved courses.....	12 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>24 hours</b>

**Certificate in Engineering Technician**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
CIS 146 or 251 .....	3 hours
WKO 106 or 131.....	3 hours
PHY 201 General Physics I Trig. Based.....	4 hours
EGR 101 Engineering Foundations .....	3 hours
ENT 106 Principles of Engineering Technology .....	3 hours
ENT 140 Applied Statics.....	3 hours
INT 119 Principles of Mech. Measurement & Technical Drawing.....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
MTH 112 PreCalculus Algebra.....	3 hours
MTH 113 PreCalculus Trigonometry .....	3 hours
DDT/MDT Sequence.....	6 hours
<b>Total Hours Required for Certificate .....</b>	<b>43 hours</b>

**Suggested Career Pathway  
in Engineering Technician**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

EGR 101 Engineering Foundations .....	3 hours
INT 119 Principles of Mech Measurement.....	3 hours
MTH 112 Precalculus Algebra.....	3 hours

DDT 144 Solid Modeling I.....	3 hours
WKO 131 MSSC Industrial Safety**.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*\*MSSC Safety Certification*

**Semester 2**

ENT 106 Principles of Engineering Tech .....	3 hours
MTH 113 Precalculus Trigonometry .....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
MDT XXX Solid Modeling II .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*ETA DC EM1 Exam and ETA DC EM2 Exam*

*\*Eligible for STC in ENT*

**Semester 3**

CIS 146 Microcomputer Applications .....	3 hours
ENG 101 English Composition .....	3 hours
Elective Mech/Elec/Indus Emphasis Elective .....	3 hours
Area IV History, Social and Behavioral Science .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

**Semester 4**

ENT 140 Applied Statistics.....	3 hours
ENT 222 Intro to Project Management.....	3 hours
Elective Mech/Elec/Indus Emphasis Elective .....	3 hours
PHY 201 General Physics I Trig Based.....	4 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
<b>Total.....</b>	<b>16 hours</b>

*\*Eligible for CER in ENT*

**Semester 5**

Area II Humanities and Fine Arts Elective .....	3 hours
WKO 106 Workplace Skills.....	3 hours
ENT 221 Industrial Quality and Productivity .....	3 hours
Elective Mech/Elec/Indus Emphasis Elective .....	3 hours
Elective Mech/Elec/Indus Emphasis Elective .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for OSHA 10-Hour Card*

**Semester 6**

Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153 ADM 154	
<b>Total.....</b>	<b>3 hours</b>

*\*Eligible for NOCTI Certification*

Eligible for AAS degree in Engineering Technology

**INDUSTRIAL ELECTRONICS TECHNOLOGY**

**Associate in Applied Science Degree  
Industrial Electronics Technology**

The Industrial Electronics Technology Program is approved by the Electronics Technicians Association — International (ETA-I).

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 100 or higher (excluding MTH 116).....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
Math, Science, or Computer Science Elective.....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

ILT 108 Intro to Instrumentation and Process Control .....	3 hours
ILT 109 Electrical Blueprint Reading .....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT 162 Solid State Fundamentals.....	3 hours
ILT 163 Digital Fundamentals .....	3 hours
ILT 166 Motors and Transformers.....	3 hours
ILT 194 Programmable Logic Controls.....	3 hours
ILT 195 Troubleshooting Techniques .....	3 hours
ILT 197 Motor Controls I.....	3 hours
ILT 276 Elements of Industrial Control II .....	3 hours
ILT 277 Elements of Industrial Control II Lab .....	2 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
ILT or Program advisor-approved electives.....	5 hours
<b>Total Area V.....</b>	<b>49 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>70-72 hours</b>

**Short-Term Certificate in Industrial Electronics Technology – General**

ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT Electives (any ILT courses).....	9 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>15 hours</b>

**Short-Term Certificate in Industrial Electronics Technology – Industrial Electrical Technician**

ILT 109 Electrical Blueprint Reading.....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT 162 Solid State Fundamentals.....	3 hours
ILT 163 Digital Fundamentals .....	3 hours
ILT 166 Motors and Transformers.....	3 hours

ILT 194 Programmable Controls I.....	3 hours
ILT 197 Motor Controls I.....	3 hours
<b>Total Hours Required for Short-Term Certificate .....</b>	<b>24 hours</b>

**Certificate in Industrial Electronics Technology – Industrial Control Technician**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 100 or higher (excluding MTH 116).....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
ILT 109 Electrical Blueprint Reading.....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT 162 Solid State Fundamentals.....	3 hours
ILT 163 Digital Fundamentals .....	3 hours
ILT 166 Motors and Transformers.....	3 hours
ILT 194 Programmable Controls I.....	3 hours
ILT 197 Motor Controls I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>39-40 hours</b>

**Suggested Career Pathway in Industrial Electronics Technology**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals .....	3 hours
ILT 109 Blueprint Reading .....	3 hours
ENG 101 English Composition I.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

**Semester 2**

ILT 197 Motor Controls.....	3 hours
ILT 162 Solid State Electronics .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for ETA Analog EM3 Certification and a Short-Term Certificate in Industrial Electronics Technology*

**Semester 3**

ILT 163 Digital Electronics.....	3 hours
ILT 166 Motors & Transformers.....	3 hours
ILT 194 Programmable Logic Controls.....	3 hours
MTH 116 or any 100-level MTH.....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

**Semester 4**

ILT 195 Troubleshooting Techniques .....	3 hours
ILT 276 Advanced Industrial Controls.....	3 hours
ILT 277 Advanced Industrial Controls.....	3 hours
Area IV History, Social, and Behavioral Science.....	3 hours

WKO 106 Workplace Essentials ..... 3 hours  
**Total..... 15 hours**

*\*Eligible for a Certificate in Industrial Electronics Technology, National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 5**

ILT 216 Industrial Robotics ..... 3 hours  
 ILT 217 Industrial Robotics Lab ..... 3 hours  
 ILT 108 Introduction to Instrumentation & Process Control..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154  
 Area II Humanities & Fine Arts Elective..... 3 hours  
**Total..... 15 hours**

Eligible for AAS degree in Industrial Electronics Technology

**INDUSTRIAL SYSTEMS TECHNOLOGY**

**Associate in Applied Science Degree  
 Industrial Systems Technology –  
 Electrical & Instrumentation**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Humanities and Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126  
**Total..... 6 hours**

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH..... 3-4 hours  
 Math, Science, or Computer Science Elective ..... 3-4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
**Total..... 9-11 hours**

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective..... 3 hours  
 Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 3 hours**

**Area V Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

INT 117 Principles of Industrial Mechanics ..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154  
 WKO 106 Workplace Skills..... 3 hours  
 WKO 110, 131, 132, 133, or 134..... 3 hours  
**Technical Core Total ..... 12 hours**

ILT 108 Intro to Instruments & Process Control ..... 3 hours  
 ILT 118 Construction Wiring NEC ..... 3 hours  
 ILT 160 DC Fundamentals..... 3 hours

ILT 161 AC Fundamentals..... 3 hours  
 ILT 162 Solid State Fundamentals..... 3 hours  
 ILT 163 Digital Fundamentals ..... 3 hours  
 ILT 166 Motors & Transformers I ..... 3 hours  
 ILT 194 Programmable Logic Controls ..... 3 hours  
 ILT 197 Motor Controls I..... 3 hours  
 ILT 231 National Electric Code ..... 3 hours  
 INT 118 Fundamentals of Industrial  
     Hydraulics and Pneumatics ..... 3 hours  
 Program advisor-approved elective ..... 3 hours  
**Total Area V..... 48 hours**  
**Total Hours Required for Degree ..... 69-71 hours**

**Short-Term Certificate in Industrial Systems Technology**

**– Basic Electrical**

ILT 160 DC Fundamentals..... 3 hours  
 ILT 161 AC Fundamentals..... 3 hours  
 ILT 118 Construction Wiring NEC ..... 3 hours  
 ILT 231 National Electric Code ..... 3 hours  
**Total Hours Required for Short-Term Certificate ..... 12 hours**

**Short-Term Certificate in Industrial Systems Technology**

**– Electrical & Instrumentation**

ILT 160 DC Fundamentals..... 3 hours  
 ILT 161 AC Fundamentals..... 3 hours  
 ILT 162 Solid State ..... 3 hours  
 ILT 197 Motor Controls I..... 3 hours  
 Program advisor-approved elective ..... 3 hours  
**Total Hours Required for the Short-Term Certificate..... 15 hours**

**Certificate in Industrial Systems Technology**

**– Electrical & Instrumentation**

ENG 101 English Composition I ..... 3 hours  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 MTH 116 or any 100-level MTH..... 3-4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 WKO 106 Workplace Skills..... 3 hours  
 INT 117 Principles of Industrial Mechanics ..... 3 hours  
 INT 118 Fundamentals of Industrial  
     Hydraulics and Pneumatics ..... 3 hours  
 ILT 231 NEC..... 3 hours  
 ILT 118 Construction Wiring NEC ..... 3 hours  
 ILT 160 DC Fundamentals..... 3 hours  
 ILT 161 AC Fundamentals..... 3 hours  
 ILT 194 Programmable Logic Controls ..... 3 hours  
 Program advisor-approved electives..... 12 hours  
**Total Hours Required for the Certificate..... 48-49 hours**

**Suggested Career Pathway  
 in Industrial Systems Technology  
 Electrical and Instrumentation Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

ILT 160 DC Fundamentals..... 3 hours  
 ILT 161 AC Fundamentals ..... 3 hours  
 Area V Program Advisor Approved Elective..... 3 hours



ENG 101 English Composition I ..... 3 hours  
 WKO 110, 131, 132, 133, or 134 ..... 3 hours  
**Total..... 15 hours**

*\*Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

**Semester 2**

ILT 197 Motor Controls ..... 3 hours  
 ILT 162 Solid State Fundamentals ..... 3 hours  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 MTH 100 Math 116 or any other 100-level Math ..... 3 hours  
**Total..... 12 hours**

*\*Eligible for Short-Term Certificate in Industrial Systems Technology – Electrical and Instrumentation*

**Semester 3**

ILT 163 Digital Electronics ..... 3 hours  
 ILT 166 Motors & Transformers ..... 3 hours  
 ILT 194 Programmable Logic Controls ..... 3 hours  
 ILT 118 Construction Wiring NEC ..... 3 hours  
**Total..... 12 hours**

*\*Eligible for ETA Digital EM4 Certification*

**Semester 4**

INT 118 Fundamentals of Industrial Hydraulics  
 and Pneumatics ..... 3 hours  
 ILT 231 National Electric Code ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area III Math or Science or Computer Science Elective ..... 3 hours  
 WKO 106 Workplace Essentials ..... 3 hours  
**Total..... 15 hours**

*\*Eligible for a Certificate in Industrial Systems Technology – ISI, National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 5**

ILT 108 Introduction to Instrumentation & Process Control ..... 3 hours  
 INT 117 Principles of Industrial Mechanics ..... 3 hours  
 Area IV History, Social, and Behavioral Science ..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154  
 Area II Humanities & Fine Arts Elective ..... 3 hours  
**Total..... 15 hours**

**Eligible for AAS degree in Industrial Systems Technology – Electrical and Instrumentation**

**Associate in Applied Science Degree  
 in Industrial Systems Technology –  
 Mechanical Maintenance**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours

Humanities and Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204, MUS 101, PHL 206,  
 REL 100, 151, 152, SPA 201, 202, THR 120, 126

**Total..... 6 hours**

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH ..... 3-4 hours  
 Math, Science or CIS Elective ..... 3-4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
**Total..... 9-11 hours**

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective ..... 3 hours  
 Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202;  
 POL 211; PSY 200, 210; SOC 200, 210

**Total..... 3 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

INT 117 Principles of Industrial Mechanics ..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153,  
 ADM 154

WKO 106 Workplace Skills ..... 3 hours  
 WKO 110, 131, 132, 133, or 134 ..... 3 hours

**Technical Core Total ..... 12 hours**

INT 118 Fundamentals of Industrial  
 Hydraulics and Pneumatics ..... 3 hours  
 INT 126 Preventative Maintenance ..... 3 hours  
 INT 127 Principles of Industrial Pumps and Piping ..... 3 hours  
 MTT 147 Introduction to Machine Shop I ..... 3 hours  
 MTT 148 Introduction to Machine Shop I Lab ..... 3 hours  
 MTT 149 Introduction to Machine Shop II ..... 3 hours  
 MTT 150 Introduction to Machine Shop II Lab ..... 3 hours  
 WDT 108 SMAW Fillet/OFC ..... 3 hours  
 WDT 122 SMAW Fillet/OFC Lab ..... 3 hours  
 WDT 217 SMAW Carbon Pipe ..... 3 hours  
 WDT 257 SMAW Carbon Pipe Lab ..... 3 hours  
 WDT 115 GTAW Carbon Pipe ..... 3 hours  
 WDT 155 GTAW Carbon Pipe Lab ..... 3 hours  
**Total Area V ..... 51 hours**  
**Total Hours Required for Degree ..... 72-75 hours**

**Short-Term Certificate in Industrial Systems Technology**

**– Mechanical Maintenance**

INT 117 Principles of Industrial Mechanics ..... 3 hours  
 INT 118 Hydraulics and Pneumatics ..... 3 hours  
 INT 126 Preventative Maintenance ..... 3 hours  
 INT 127 Principles of Industrial Pumps and Piping Systems ..... 3 hours  
**Total Hours required for Short-Term Certificate ..... 12 hours**

**Certificate in Industrial Systems Technology**

**– Mechanical Maintenance**

ENG 101 English Composition I ..... 3  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 MTH 116 or any 100-level MTH ..... 3-4 hours  
 CIS Elective ..... 3 hours  
 INT 117 Fundamentals of Hydraulics and Pneumatics ..... 3 hours  
 INT 126 Preventative Maintenance ..... 3 hours

WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
Mechanical Maintenance Electives by Advisement .....	24 hours
<b>Total Hours Required for the Certificate.....</b>	<b>48-49 hours</b>

**Suggested Career Pathway  
in Industrial Systems Technology  
Mechanical Maintenance Technician Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

MTT 147 Introduction to Machine Shop I.....	3 hours
MTT 148 Introduction to Machine Shop Lab I .....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
ENG 101 English Composition I.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a certification in NCCER or MSSC and a NIMS MMSI Certification*

**Semester 2**

INT 117 Principles of Industrial Mechanics .....	3 hours
MTT 149 Introduction to Machine Shop II .....	3 hours
MTT 150 Introduction to Machine Shop Lab II .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 100 Math 116 or any other 100-level Math .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for Short-Term Certificate in Industrial Systems Technology – Mechanical Maintenance and a NIMS Drill Press AND/OR Job Planning, Bench Work, Layout Certification*

**Semester 3**

INT 126 Preventive Maintenance .....	3 hours
ILT 118 Construction Wiring NEC .....	3 hours
WDT 108 SMAW Fillet/OFC .....	3 hours
WDT 122 SMAW Fillet/OFC Lab.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for a AWS or NCCER Welding Certification*

**Semester 4**

WDT 217 SMAW Carbon Pipe.....	3 hours
WDT 257 SMAW Carbon Pipe Lab .....	3 hours
WDT 115 GTAW Carbon Pipe .....	3 hours
WDT 155 GTAW Carbon Pipe Lab .....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a Certificate in Industrial Systems Technology – IMM and a AWS or NCCER Welding Certification*

**Semester 5**

INT 127 Principles of Industrial Pumps and Piping .....	3 hours
WKO 106 Workplace Essentials.....	3 hours
Area IV History, Social, and Behavioral Science .....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	

Area II Humanities & Fine Arts Elective.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a National Career Readiness Certificate and OSHA 10 Hour Card*

**Eligible for AAS degree in Industrial Systems Technology –  
Mechanical Maintenance Option**

**Associate in Applied Science Degree  
Industrial Systems Technology –  
Multi-Skilled Maintenance Technician**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

INT 117 Principles of Industrial Mechanics .....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Technical Core Total .....</b>	<b>12 hours</b>

INT 118 Fundamentals of Industrial Hydraulics and Pneumatics .....	3 hours
INT 126 Preventive Maintenance .....	3 hours
INT 127 Principles of Industrial Pumps and Piping .....	3 hours
INT 134 Principles of Industrial Maintenance Welding & Cutting Techniques.....	3 hours
ILT 118 Construction Wiring NEC .....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT 195 Troubleshooting Techniques .....	3 hours
ILT 197 Motor Controls I.....	3 hours
ILT 231 NEC.....	3 hours
Program advisor-approved electives.....	6 hours
<b>Total Area V.....</b>	<b>48 hours</b>
<b>Total Hours Required for the Degree.....</b>	<b>69-72 hours</b>

**Certificate in Industrial Systems Technology  
– MultiSkilled Maintenance Technician**

ENG 101 English Composition I .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
WKO 106 Workplace Skills.....	3 hours
INT 117 Principles of Industrial Mechanics .....	3 hours
INT 118 Fundamentals of Industrial Hydraulics and Pneumatics .....	3 hours
ILT 231 NEC.....	3 hours
ILT 118 Construction Wiring NEC.....	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
ILT 195 Troubleshooting Techniques .....	3 hours
ILT 197 Motor Controls I.....	3 hours
Program advisor-approved electives.....	12 hours
<b>Total Hours Required for the Certificate.....</b>	<b>48-49 hours</b>

**Suggested Career Pathway  
in Industrial Systems Technology**

**Multi-Skilled Maintenance Technician Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals .....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
ENG 101 English Composition I.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for ETA EM1 and EM2 Certification and for a certification in NCCER or MSSC*

**Semester 2**

Area V Program Advisor Approved Elective.....	3 hours
INT 117 Principles of Industrial Mechanics .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 100 Math 116 or any other 100-level Math .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for Short-Term Certificate in Industrial Systems Technology – Multi-Skilled Technician*

**Semester 3**

INT 126 Preventive Maintenance .....	3 hours
INT 118 Fundamentals of Industrial Hydraulics & Pneumatics.....	3 hours
ILT 197 Motor Controls.....	3 hours
ILT 118 Construction Wiring NEC.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

**Semester 4**

ILT 195 Troubleshooting Techniques .....	3 hours
ILT 231 National Electric Code .....	3 hours
Area V Program Advisor Approved Elective.....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours

WKO 106 Workplace Essentials.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a Certificate in Industrial Systems Technology – ISS, National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 5**

INT 127 Principles of Industrial Pumps and Piping .....	3 hours
INT 134 Principles of Industrial Maintenance Welding and Metal Cutting .....	3 hours
Area IV History, Social, and Behavioral Science .....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
Area II Humanities & Fine Arts Elective.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

**Eligible for AAS degree in Industrial Systems Technology  
– Multi-Skilled Technician Option**

**MACHINE TOOL TECHNOLOGY**

**Associate in Applied Science Degree  
in Industrial Systems Technology –  
Machine Tool Technology**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

INT 117 Principles of Industrial Mechanics .....	3 hours
Cooperative Education Electives .....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Technical Core Total .....</b>	<b>12 hours</b>

INT 119 Principles of Mechanical Measurement and Technical Drawing.....	3 hours
MTT Electives (Any MTT or CNC courses).....	30 hours
<b>Total Area V.....</b>	<b>45 hours</b>
<b>Total Hours Required for the AAS Degree.....</b>	<b>66-68 hours</b>

**Short-Term Certificate in Machine Tool Technology**

MTT or CNC Courses (by advisement).....	12 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>12 hours</b>

**Short-Term Certificate in Machine Tool Technology**

**– Stamping and Forming**

CNC 158 Die Fundamentals.....	3 hours
CNC 160 Die Construction and Tryout.....	3 hours
CNC 161 Die Maintenance and Repair.....	3 hours
CNC 232 Basic Tool and Die.....	4 hours
<b>Total Hours Required for Short-Term Certificate.....</b>	<b>13 hours</b>

**Certificate in Industrial Systems Technology**

**– Machine Tool Technology**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking.....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications.....	3 hours
INT 117 Principles of Industrial Maintenance.....	3 hours
INT 119 Principles of Mechanical Measurements & Technical Drawing.....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110, 131, 132, 133 or 134.....	3 hours
MTT or CNC Electives (by advisement).....	24 hours
<b>Total Hours Required for Certificate.....</b>	<b>48-49 hours</b>

**Suggested Career Pathway  
in Industrial Systems Technology –  
Machine Tool Technology**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

MTT 147 Introduction to Machine Shop I.....	3 hours
MTT 148 Introduction to Machine Shop Lab I.....	3 hours
CIS 146 Microcomputer Applications.....	3 hours
Area IV History or Social or Behavioral Science elective.....	3 hours
INT 119 Principles of Mechanical Measurement and Technical Drawing.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for NIMS MMSI Certification*

**Semester 2**

MTT 141 Basic CNC Milling Programming I.....	3 hours
MTT 241 CNC Milling Lab I.....	3 hours
INT 117 Principles of Industrial Mechanics.....	3 hours
ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for a Short-Term Certificate in Machine Tool Technology and a NIMS CNC Mill Operator Certification*

**Semester 3**

MTT 149 Introduction to Machine Shop II.....	3 hours
MTT 150 Introduction to Machine Shop Lab II.....	3 hours
MTH 100 Math 116 or any other 100-level Math.....	3 hours
WKO 110, 131, 132, 133, or 134.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for a NIMS Drill Press AND/OR Job Planning, Bench Work, Layout Certification and for a certification in NCCER or MSSC*

**Semester 4**

MTT 140 Basic CNC Turning Programming I.....	3 hours
MTT 243 CNC Turning Lab I.....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours
SPH 107 Fundamentals of Public Speaking.....	3 hours
WKO 106 Workplace Essentials.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for a Certificate in Industrial Systems Technology – MTT, National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 5**

MTT 213 Advanced CNC Milling.....	3 hours
MTT 242 CNC Milling Lab II.....	3 hours
MTT 218 Computer Integrated Manufacturing (CIM).....	3 hours
Cooperative Education Electives.....	3 hours
Choose from: ADM 150, ADM 151, ADM 152, ADM 153, ADM 154	
Area II Humanities & Fine Arts Elective.....	3 hours

<b>Total.....</b>	<b>15 hours</b>
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*\*Eligible for NIMS CNC Milling Certification*

**Eligible for AAS degree in Industrial Systems Technology –  
Machine Tool Technology**

**WELDING TECHNOLOGY**

**Associate in Applied Science Degree  
in Industrial Systems Technology –  
Welding Technology**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking.....	3 hours
Humanities and Fine Arts Elective.....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective.....	3-4 hours
CIS 146 Microcomputer Applications.....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective..... 3 hours  
 Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202;  
 POL 211; PSY 200, 210; SOC 200; 210  
**Total..... 3 hours**

**Area V Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

INT 117 Principles of Industrial Mechanics ..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153,  
 ADM 154  
 WKO 106 Workplace Skills..... 3 hours  
 WKO 110 NCCER Core..... 3 hours  
**Technical Core Total ..... 12 hours**

INT 119 Principles of Mechanical Measurement and  
 Technical Drawing..... 3 hours  
 WDT Electives (Any WDT courses) ..... 30 hours  
**Total Area V ..... 45 hours**  
**Total Hours Required for the AAS Degree ..... 66-68 hours**

**Short-Term Certificate in Welding Technology**

WDT Courses (by advisement)..... 12 hours  
**Total Hours Required for Short-Term Certificate ..... 12 hours**

**Short-Term Certificate in Welding Technology**

**– Structural Welding**

WDT 120 Shielded Metal Arc Welding Groove ..... 3 hours  
 WDT 125 SMAW Fillet/OFC Lab..... 3 hours  
 WDT 108 or WDT 109 ..... 3 hours  
 WDT 122 or WDT 123 ..... 3 hours  
 WKO 110 NCCER Core..... 3 hours  
**Total Hours Required for Short-Term Certificate ..... 15 hours**

**Certificate in Industrial Systems Technology**

**– Welding Technology**

ENG 101 English Composition I ..... 3 hours  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 MTH 116 or any 100-level MTH..... 3-4 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 WKO 106 Workplace Skills..... 3 hours  
 WKO 110 NCCER Core ..... 3 hours  
 INT 117 Principles of Industrial Mechanics ..... 3 hours  
 INT 119 Principles of Mechanical Measurement and  
 Technical Drawing..... 3 hours  
 WDT Electives ..... 24 hours  
**Total Hours Required for the Certificate..... 48-49 hours**



**Suggested Career Pathway  
 in Industrial Systems Technology  
 Welding Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

WDT 108 SMAW Fillet/OFC ..... 3 hours  
 WDT 109 SMAW Fillet/PAC/CAC ..... 3 hours  
 CIS 146 Microcomputer Applications ..... 3 hours  
 Area II Humanities & Fine Arts Elective..... 3 hours  
 WKO 110, 131, 132, 133, or 134..... 3 hours  
**Total..... 15 hours**

*\*Eligible for a certification in NCCER or MSSC and AWS Certification*

**Semester 2**

WDT 119 Gas Metal Arc/Flux Cored Arc Welding ..... 3 hours  
 WDT 124 Gas Metal Arc/Flux Cored Arc Welding/ Lab ..... 3 hours  
 INT 117 Principles of Industrial Mechanics ..... 3 hours  
 ENG 101 English Composition I ..... 3 hours  
**Total..... 12 hours**

*\*Eligible for a Short-Term Certificate in Welding Technology and AWS Certification*

**Semester 3**

WDT 228 Gas Tungsten Arc Welding ..... 3 hours  
 WDT 268 Gas Tungsten Arc Welding/ Lab ..... 3 hours  
 MTH 116 or any 100-level MTHs ..... 3 hours  
 INT 119 Principle of Mechanical Measurement and  
 Technical Drawing..... 3 hours  
**Total..... 12 hours**

*\*Eligible for AWS Certification*

**Semester 4**

WDT 157 Consumable Welding Processes..... 3 hours  
 WDT 158 Consumable Welding Processes..... 3 hours  
 Area III Math or Science or Computer Science Elective..... 3 hours  
 SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 WKO 106 Workplace Essentials..... 3 hours  
**Total..... 15 hours**

*\*Eligible for a Certificate in Industrial Systems Technology-WDT, National Career Readiness Certificate and OSHA 10 Hour Card and AWS Certification*

**Semester 5**

WDT 180 Special Projects..... 3 hours  
 WDT 181 Special Projects/Lab..... 3 hours  
 Area IV History, Social, and Behavioral Science ..... 3 hours  
 Cooperative Education Electives ..... 3 hours  
 Choose from: ADM 150, ADM 151, ADM 152, ADM 153,  
 ADM 154  
**Total..... 12 hours**

*\*Eligible for AWS Certification*

**Eligible for AAS degree in Industrial Systems Technology-  
 Welding Option**

**MEDICAL ASSISTING TECHNOLOGY**

**Associate in Applied Science Degree  
Medical Assisting Technology**

The Medical Assisting Technology Program is approved by the American Medical Technologists Association.

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
Humanities and Fine Arts Elective ..... 3 hours  
Choose from: ART 100, 203, 204; MUS 101; PHL 206;  
REL 100, 151, 152; SPA 201, 202; THR 120, 126  
**Total..... 6 hours**

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH..... 3-4 hours  
BIO 103 Principles of Biology ..... 4 hours  
CIS 146 Microcomputer Applications ..... 3 hours  
**Total..... 10-11 hours**

**Area IV – History, Social, and Behavioral Sciences**

PSY Elective ..... 3 hours  
**Total..... 3 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

MAT 101 or OAD 211 ..... 3 hours  
MAT 102 or BIO 201 ..... 3-4 hours  
MAT 103 or BIO 202 ..... 3-4 hours  
MAT 111 Clinical Procedures I for the Medical Assistant..... 3 hours  
MAT 120 Medical Administrative Procedures I ..... 3 hours  
MAT 121 Medical Administrative Procedures II..... 3 hours  
MAT 125 Laboratory Procedures I for the Medical Assistant ... 3 hours  
MAT 200 Management of Office Emergencies ..... 2 hours  
MAT 211 Clinical Procedures II for the Medical Assistant ..... 3 hours  
MAT 215 Laboratory Procedures II for the Medical Assistant... 3 hours  
MAT 216 Medical Pharmacology for the Medical Office ..... 4 hours  
MAT 229 Medical Assisting Preceptorship ..... 3 hours  
Electives..... 8 hours  
Choose from: MAT 128, MAT 220, MAT 218,  
MAT 222 or OAD 212; MAT 228;  
MAT 239; HIT 230; HIT 232; HIT 116; HIT 283  
WKO 106 Workplace Skills..... 3 hours  
EMS 100 or EMS 101 ..... 1 hour  
**Total Area V..... 48-50 hours**  
**Total Hours Required for Degree ..... 70-72 hours**

**Short-Term Certificate in Medical Assisting Technology  
– General**

MAT 101 or OAD 211 ..... 3 hours  
MAT 102 or BIO 201 ..... 3-4 hours  
MAT 103 or BIO 202 ..... 3-4 hours  
MAT 111 Clinical Procedures I for the Medical Assistant..... 3 hours  
MAT 120 Medical Administrative Procedures I ..... 3 hours  
MAT 121 Medical Administrative Procedures II..... 3 hours

WKO 106 Workplace Skills..... 3 hours  
**Total Hours Required for Certificate ..... 21-23 hours**

**Short-Term Certificate in Medical Assisting Technology  
– Phlebotomist**

MAT 125 Laboratory Procedures I for the Medical Assistant .... 3 hours  
MAT 215 Laboratory Procedures II for the Medical Assistant... 3 hours  
MAT 239 Phlebotomy Preceptorship..... 3 hours  
EMS 100 or EMS 101 ..... 1 hours  
**Total Hours Required for Short-Term Certificate ..... 10 hours**

**Short-Term Certificate in Medical Assisting Technology  
– EKG Technician**

MAT 101 or OAD 211 ..... 3 hours  
MAT 102 or BIO 201 ..... 3-4 hours  
MAT 111 Clinical Procedures I for the Medical Patient..... 3 hours  
MAT 218 EKG Technician..... 3 hours  
EMS 100 or EMS 101 ..... 1 hours  
**Total Hours Required for Certificate ..... 13-14 hours**

**Short-Term Certificate in Medical Assisting Technology  
– Medical Coding**

MAT 101 or OAD 211 ..... 3 hours  
MAT 102 or BIO 201 ..... 3-4 hours  
MAT 103 or BIO 202 ..... 3-4 hours  
CIS 146 or OAD 125 ..... 3 hours

*(Note: All above are prerequisites for the courses below)*

HIT 116 or MAT 216 ..... 2-4 hours  
HIT 230 Medical Coding Systems I ..... 3 hours  
HIT 232 Medical Coding Systems II ..... 3 hours  
MAT 220 Medical Office Insurance..... 3 hours  
HIT 283 Medical Coding Professional Practice ..... 2 hours  
**Total Hours Required for Certificate ..... 25-28 hours**

**NURSING**

**Associate in Applied Science Degree  
Associate Degree Nursing**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total ..... 3 hours**

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
Humanities/Fine Arts Elective ..... 3 hours  
Choose from: ART 100, 203, 204; MUS 101: PHL 206\*;  
REL 100, 151, 152; SPA 201, 202; THR 120, 126;  
ENG 251, 252, 262, 271 (only after the completion of EH 102)  
*\*\*PHL 206 is preferred.*  
**Total..... 6 hours**

**Area III – Natural Science and Mathematics**

MTH 100, 110, 112, 113, 120 or 125..... 3 hours  
BIO 201 Human Anatomy and Physiology I ..... 4 hours  
BIO 202 Human Anatomy and Physiology II ..... 4 hours  
BIO 220 General Microbiology ..... 4 hours  
**Total..... 15 hours**

**Area IV – History, Social, and Behavioral Sciences**

PSY 200 General Psychology .....	3 hours
PSY 210 Human Growth and Development .....	3 hours
<b>Total.....</b>	<b>6 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

NUR 112 Fundamental Concepts of Nursing .....	7 hours
NUR 113 Nursing Concepts I .....	8 hours
NUR 114 Nursing Concepts II .....	8 hours
NUR 115 Evidenced Based Clinical Reasoning .....	2 hours
NUR 211 Advanced Nursing Concepts .....	7 hours
NUR 221 Advanced Evidence Based Clinical Reasoning .....	7 hours
<b>Total Area V.....</b>	<b>39 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>69 hours</b>

**Practical Nursing Certificate**

ENG 101 English Composition I .....	3 hours
MTH 100, 110, 112, 113, or 125 .....	3 hours
BIO 201 Human Anatomy and Physiology I .....	4 hours
BIO 202 Human Anatomy and Physiology II .....	4 hours
PSY 200 General Psychology .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
NUR 112 Fundamental Concepts of Nursing .....	7 hours
NUR 113 Nursing Concepts I .....	8 hours
NUR 114 Nursing Concepts II .....	8 hours
NUR 115 Evidenced Based Clinical Reasoning .....	2 hours
<b>Total Hours Required for Certificate .....</b>	<b>45 hours</b>

**OFFICE ADMINISTRATION**

**Associate in Applied Science Degree  
Office Administration**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Sciences and Mathematics**

CIS 146 Microcomputer Applications .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
<b>Total.....</b>	<b>6-7 hours</b>

**Area IV – History, Social and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: GEO 100, HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Course**

**Technical Core – Required of all options**

OAD 103 Intermediate Keyboarding.....	3 hours
OAD 125 Word Processing.....	3 hours

OAD 138 Records/Information Management.....	3 hours
BUS 215 Business Communication.....	3 hours
BUS 241 Principles of Accounting I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>18 hours</b>

ECO 231 or 232 .....	3 hours
BUS 245 Accounting with Quickbooks.....	3 hours
OAD 131 Business English .....	3 hours
OAD 200 or 212.....	3 hours
ACT/BUS/OAD Electives .....	15 hours
Choose from: ACT 249; BUS 242, 248; OAD 101, 126, 202, 211, 218, 231, 241, 243, 246	
<b>Total Area V.....</b>	<b>45 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-64 hours</b>

**Associate in Applied Science Degree  
Office Administration  
Medical Office Option**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Sciences and Mathematics**

CIS 146 Microcomputer Applications .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
<b>Total.....</b>	<b>6-7 hours</b>

**Area IV – History, Social and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: GEO 100, HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Course  
Core Courses**

**Technical Core – Required of all options**

OAD 103 Intermediate Keyboarding.....	3 hours
OAD 125 Word Processing.....	3 hours
OAD 138 Records/Information Management.....	3 hours
BUS 215 Business Communication.....	3 hours
BUS 241 Principles of Accounting I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>18 hours</b>

ECO 231 or 232 .....	3 hours
MAT 101 or OAD 211 .....	3 hours
OAD 212 Medical Transcription .....	3 hours
OAD/MAT/HIT Electives .....	9-12 hours
Choose from: MAT 120 or OAD 214; MAT 220 or OAD 215; MAT 121; MAT 128; OAD 241; or HIT 230, HIT 232	

ACT/BUS/OAD Electives .....	6-9 hours
Choose from: ACT 249; BUS 242, 248; OAD 101, 126, 131, 200 218, 231, 241, 243, 246	
<b>Total Area V .....</b>	<b>45 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-64 hours</b>

**Associate in Applied Science Degree  
Office Administration  
Paralegal Option**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total .....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
<b>Total .....</b>	<b>6 hours</b>

**Area III – Natural Sciences and Mathematics**

CIS 146 Microcomputer Applications .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
<b>Total .....</b>	<b>6-7 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
<b>Total .....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Course**

<b>Technical Core – Required of all options</b>	
OAD 103 Intermediate Keyboarding.....	3 hours
OAD 125 Word Processing.....	3 hours
OAD 138 Records/Information Management.....	3 hours
BUS 215 Business Communication.....	3 hours
BUS 241 Principles of Accounting I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>18 hours</b>

BUS 263 The Legal and Social Environment of Business .....	3 hours
OAD 202 Legal Transcription .....	3 hours
ACT/BUS/OAD Electives .....	6-9 hours
Choose from: ACT 249; BUS 242, 248; OAD 101, 126, 218, 231, 241, 243, 246	
Paralegal electives.....	24 hours
Choose eight courses from PRL 101, 102, 103, 150, 160, 192, 210, 220, 230, 240, 262, 282, OAD 241	
<b>Total Area V .....</b>	<b>57 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>69-70 hours</b>

**SALON AND SPA MANAGEMENT**

**Associate in Applied Science Degree  
in Salon and Spa Management – Cosmetology**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total .....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total .....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total .....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200; 210	
<b>Total .....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

<b>Technical Core – Required of all options</b>	
SAL 133 Salon Management Technology .....	3 hours
SAL 201 Entrepreneurship for Salon/Spa.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>9 hours</b>

COS 111 Introduction to Cosmetology.....	3 hours
COS 112 Introduction to Cosmetology Lab .....	3 hours
COS 113 Theory of Chemical Services .....	3 hours
COS 114 Chemical Services Lab.....	3 hours
COS 115 Hair Coloring Theory .....	3 hours
COS 116 Hair Coloring Lab .....	3 hours
COS 117 Basic Spa Techniques.....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 123 Cosmetology Salon Practices.....	3 hours
COS 143 Specialty Hair Preparation Techniques .....	3 hours
COS 144 Hair Shaping and Design .....	3 hours
COS 190 Internship in Cosmetology .....	3 hours
<b>Total Area V .....</b>	<b>45 hours</b>
<b>Total Hours Required for the AAS Degree .....</b>	<b>66-68 hours</b>

**Certificate in Salon & Spa Management – Cosmetology**

ENG 101 English Composition I .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
WKO 106 Workplace Skills.....	3 hours
SAL 133 Salon Management Technology .....	3 hours
COS 111 Introduction to Cosmetology.....	3 hours
COS 112 Introduction to Cosmetology Lab .....	3 hours



COS 113 Theory of Chemical Services .....	3 hours
COS 114 Chemical Services Lab.....	3 hours
COS 115 Hair Coloring Theory .....	3 hours
COS 116 Hair Coloring Lab .....	3 hours
COS 117 Basic Spa Techniques.....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 123 Cosmetology Salon Practices.....	3 hours
COS 143 Specialty Hair Preparation Techniques .....	3 hours
COS 144 Hair Shaping and Design .....	3 hours
COS 190 Internship in Cosmetology.....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>54-55 hours</b>

**Suggested Career Pathway  
in Salon and Spa Management –  
Cosmetology**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

COS 111 Introduction To Cosmetology.....	3 hours
COS 112 Introduction To Cosmetology Lab .....	3 hours
COS 113 Theory Of Chemical Services .....	3 hours
COS 114 Theory Of Chemical Services Lab .....	3 hours
<b>Total.....</b>	<b>12 hours</b>

*\*Eligible for Barbicide Certification*

**Semester 2**

COS 115 I Hair Coloring Theory.....	3 hours
COS 116 Hair Coloring Theory Lab.....	3 hours
COS 123 Cosmetology Salon Practices.....	3 hours
SAL 133 Salon Management Technology .....	3 hours
MTH 116 or any 100-level MTH.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for Backscratchers Certification in Gel, Fiberglass and Dip Nails*

**Semester 3**

COS 117 Basic Spa Techniques.....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 143 Specialty Hair Prep Techniques .....	3 hours
ENG 101 English Composition I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 4**

CIS 146 Microcomputer Applications .....	3 hours
SAL 133 Salon Management Technology .....	3 hours
COS 144 Hair Shaping & Design .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
COS 190 Internship In Cosmetology.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for Certificate in Salon and Spa Management-COS*

**Semester 5**

Area IV History, Social, and Behavioral Science .....	3 hours
SAL 201 Entrepreneurship For Salon.....	3 hours

Area II Humanities & Fine Arts Elective.....	3 hours
<b>Total.....</b>	<b>9 hours</b>

*\*Eligible to sit for the Alabama Board of Cosmetology Exam*

**Eligible for AAS degree in Salon and Spa Management-  
Cosmetology Option**

**Associate in Applied Science Degree  
in Salon and Spa Management – Esthetics**

**Area I – Written Composition**

ENG 101 English Composition I.....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200; 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

**Technical Core – Required of all options**

SAL 133 Salon Management Technology .....	3 hours
SAL 201 Entrepreneurship for Salon/Spa.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>9 hours</b>

COS 117 Basic Spa Techniques.....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 127 Esthetics Theory.....	3 hours
COS 134 Advanced Esthetics .....	3 hours
COS 135 Advanced Esthetics Applications .....	3 hours
COS 163 Facial Treatments .....	3 hours
COS 164 Facial Machine.....	3 hours
COS 165 Related Subjects Estheticians.....	3 hours
COS 168 Bacteriology and Sanitation .....	3 hours
COS 190 Internship in Cosmetology .....	3 hours
COS 191 Co-Op.....	3 hours
<b>Total Area V.....</b>	<b>42 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>63-65 hours</b>

**Short-Term Certificate in Cosmetology – Esthetics**

SAL 133 Salon Management Technology .....	3 hours
SAL 201 Entrepreneurship for the Salon/Spa.....	3 hours
COS 117 Basic Spa Techniques.....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours

COS 163 Facial Treatments .....	3 hours
COS 164 Facial Machine .....	3 hours
COS 168 Bacteriology and Sanitation .....	3 hours
COS 190 Internship in Cosmetology .....	3 hours
COS 191 Co-op in Cosmetology .....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>27 hours</b>

**Certificate in Salon & Spa Management – Esthetics**

ENG 101 English Composition I .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
WKO 106 Workplace Skills.....	3 hours
SAL 133 Salon Management Technology .....	3 hours
SAL 201 Entrepreneurship for Salon/Spa.....	3 hours
COS 117 Basic Spa Techniques .....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 127 Esthetics Theory.....	3 hours
COS 134 Advanced Esthetics .....	3 hours
COS 135 Advanced Esthetics Applications .....	3 hours
COS 163 Facial Treatments .....	3 hours
COS 164 Facial Machines .....	3 hours
COS 165 Related Subjects Estheticians.....	3 hours
COS 168 Bacteriology & Sanitation.....	3 hours
COS 190 Internship in Cosmetology .....	3 hours
COS 191 Co-Op in COS.....	3 hours
<b>Total Hours Required for Certificate .....</b>	<b>54-55 hours</b>

**Suggested Career Pathway  
in Salon and Spa Management  
Esthetics Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

COS 117 Basic Spa Techniques .....	3 hours
COS 118 Basic Spa Techniques Lab.....	3 hours
COS 190 Internship In Cosmetology .....	3 hours
SAL 201 Entrepreneurship For Salon.....	3 hours
<b>Total.....</b>	<b>12 hours</b>

**Semester 2**

SAL 133 Salon Management Technology .....	3 hours
COS 191 Co-op.....	3 hours
COS 168 Bacteriology And Sanitation .....	3 hours
COS 163 Facial Treatments .....	3 hours
COS 164 Facial Machines .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for Short-Term Certificate in Esthetics*

**Semester 3**

MTH 116 or any 100-level MTH.....	3 hours
CIS 146 Microcomputer Applications .....	3 hours
COS 127 Esthetics Theory.....	3 hours
ENG 101 English Composition I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for National Career Readiness Certificate and OSHA 10 Hour Card*

**Semester 4**

COS 165 Related Subjects-Estheticians .....	3 hours
COS 134 Advanced Esthetics .....	3 hours
SPH 107 Fundamentals of Public Speaking .....	3 hours
SAL 201 Entrepreneurship For Salon.....	3 hours
COS 135 Advanced Esthetics Applications .....	3 hours
<b>Total.....</b>	<b>15 hours</b>

*\*Eligible for Certificate in Salon and Spa Management-EST*

**Semester 5**

Area IV History, Social, and Behavioral Science .....	3 hours
Area II Humanities & Fine Arts Elective.....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours
<b>Total.....</b>	<b>9 hours</b>

*\*Eligible to sit for the Alabama Board of Cosmetology Exam*

**Eligible for AAS degree in Salon and Spa Management- Esthetics Option**

**Associate in Applied Science Degree  
in Salon and Spa Management  
– Therapeutic Massage**

**Area I – Written Composition**

ENG 101 English Composition I .....	3 hours
<b>Total.....</b>	<b>3 hours</b>

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking .....	3 hours
Humanities and Fine Arts Elective .....	3 hours
Choose from: ART 100, 203, 204, MUS 101, PHL 206, REL 100, 151, 152, SPA 201, 202, THR 120, 126	
<b>Total.....</b>	<b>6 hours</b>

**Area III – Natural Science and Mathematics**

MTH 116 or any 100-level MTH.....	3-4 hours
Math, Science or CIS Elective .....	3-4 hours
CIS 146 Microcomputer Applications .....	3 hours
<b>Total.....</b>	<b>9-11 hours</b>

**Area IV – History, Social, and Behavioral Sciences**

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200; 210	
<b>Total.....</b>	<b>3 hours</b>

**Area V – Pre-Professional, Major, and Elective Courses**

<b>Technical Core – Required of all options</b>	
SAL 133 Salon Management Technology .....	3 hours
SAL 201 Entrepreneurship for Salon/Spa.....	3 hours
WKO 106 Workplace Skills.....	3 hours
<b>Technical Core Total .....</b>	<b>9 hours</b>

MSG 101 Introduction to Therapeutic Massage.....	2 hours
MSG 102 Therapeutic Massage Lab I .....	3 hours
MSG 103 Anatomy and Physiology .....	3 hours
MSG 104 Musculoskeletal and Kinesiology I.....	3 hours
MSG 105 Therapeutic Massage Supervised Clinical I.....	2 hours
MSG 200 Business and Marketing Plans.....	1 hour

MSG 201 Therapeutic Massage for Special Populations.....	2 hours
MSG 202 Therapeutic Massage Lab II.....	3 hours
MSG 203 Pathology.....	3 hours
MSG 204 Musculoskeletal and Kinesiology II.....	3 hours
MSG 205 Therapeutic Massage Supervised Clinical II.....	2 hours
MSG 206 Licensure Exam Review.....	1 hour
EMS 103 First Aid/CPR.....	1 hour
Electives.....	7 hours

Choose from: BUS, COS, HED, SAL, or CIS

<b>Total Area V.....</b>	<b>45 hours</b>
<b>Total Hours Required for Degree .....</b>	<b>66-68 hours</b>

**Short-Term Certificate in Therapeutic Massage**

MSG 101 Introduction to Therapeutic Massage.....	2 hours
MSG 102 Therapeutic Massage Lab I.....	3 hours
MSG 103 Anatomy and Physiology*.....	3 hours
MSG 104 Musculoskeletal and Kinesiology I.....	3 hours
MSG 105 Therapeutic Massage Supervised Clinical I.....	2 hours
MSG 200 Business and Marketing Plans.....	1 hour
MSG 201 Therapeutic Massage for Special Populations.....	2 hours
MSG 202 Therapeutic Massage Lab II.....	3 hours
MSG 203 Pathology.....	3 hours
MSG 204 Musculoskeletal and Kinesiology II.....	3 hours
MSG 205 Therapeutic Massage Supervised Clinical II.....	2 hours
MSG 206 Licensure Exam Review.....	1 hour
EMS 103 First Aid/CPR.....	1 hour

<b>Total Hours Required for Short-Term Certificate .....</b>	<b>29 hours</b>
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\*BIO 201 is an approved substitute for MSG 103.

**Certificate in Salon & Spa Management – Therapeutic Massage**

ENG 101 English Composition I.....	3 hours
SPH 107 Fundamentals of Public Speaking.....	3 hours
MTH 116 or any 100-level MTH.....	3-4 hours
CIS 146 Microcomputer Applications.....	3 hours
WKO 106 Workplace Skills.....	3 hours
SAL 133 Salon Management Technology.....	3 hours
MSG 101 Introduction to Therapeutic Massage.....	2 hours
MSG 102 Therapeutic Massage Lab.....	3 hours
MSG 103 Anatomy & Physiology.....	3 hours
MSG 104 Musculoskeletal & Kinesiology.....	3 hours
MSG 105 Therapeutic Massage Supervised Clinical I.....	2 hours
MSG 200 Business & Marketing Plans.....	1 hour
MSG 201 Therapeutic Massage for Special Populations.....	2 hours
MSG 202 Therapeutic Massage Lab II.....	3 hours
MSG 203 Pathology.....	3 hours
MSG 204 Musculoskeletal & Kinesiology II.....	3 hours
MSG 205 Therapeutic Massage Supervised Clinical II.....	2 hours
MSG 206 Licensure Exam Review.....	1 hour
EMS 103 First Aid/CPR.....	1 hour
Elective (Choose from BUS, COS, EMS, HED, or CIS).....	7 hours
<b>Total Hours Required for Certificate .....</b>	<b>54-55 hours</b>

**Suggested Career Pathway  
in Salon and Spa Management  
Massage Therapy Option**

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

**Semester 1**

MSG 101 Intro To Therapeutic Massage.....	2 hours
MSG 102 Therapeutic Massage Lab I.....	3 hours
MSG 103 Anatomy and Physiology.....	3 hours
MSG 104 Musculoskeletal and Kinesiology.....	3 hours
SPH 107 Fundamentals of Public Speaking.....	3 hours

<b>Total.....</b>	<b>14 hours</b>
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\*Eligible for National Career Readiness Certificate and OSHA 10 Hour Card

**Semester 2**

MSG 105 Therapeutic Massage Supervised Clinical I.....	2 hours
MSG 201 Therapeutic Massage For Special Population.....	2 hours
MSG 202 Therapeutic Massage Lab II.....	3 hours
MSG 204 Musculoskeletal And Kinesiology II.....	3 hours
EMS 103 First Aid/CPR.....	1 hour
CIS 146 Microcomputer Applications.....	3 hours

<b>Total.....</b>	<b>14 hours</b>
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\*Eligible for AHA CPR/First Aid Certification

**Semester 3**

MTH 116 or any 100-level MTH.....	3 hours
MSG 200 Business and Marketing Plans.....	1 hours
MSG 203 Pathology.....	3 hours
MSG 205 Therapeutic Massage Supervised Clinical II.....	2 hours
MSG 206 National Certification Exam Review.....	1 hours
ENG 101 English Composition I.....	3 hours

<b>Total.....</b>	<b>13 hours</b>
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\*Eligible for Short-Term Certificate in Massage Therapy

**Semester 4**

WKO 106 Workplace Skills.....	3 hours
SAL 133 Salon Management Technology.....	3 hours
Area II Humanities & Fine Arts Elective.....	3 hours
Area III Math or Science or Computer Science Elective.....	3 hours

<b>Total.....</b>	<b>12 hours</b>
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\*Eligible for Certificate in Salon and Spa Management-MSG

**Semester 5**

Area IV History, Social, and Behavioral Science.....	3 hours
SAL 201 Entrepreneurship For Salon.....	3 hours
Elective in BUS, COS, HED, SAL or CIS.....	3 hours
Elective in BUS, COS, HED, SAL or CIS.....	4 hours

<b>Total.....</b>	<b>12 hours</b>
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\*Eligible to sit for the Alabama Board of Massage Therapy Exam

**Eligible for AAS degree in Salon and Spa Management – Massage Therapy Option**

**WORKPLACE SKILLS**

**Short-Term Certificate in Workplace Skills**

**– Certified Production Technician**

WKO 131 or WKO 110.....	3 hours
WKO 132, ENT 221, INT 119, ADM 101, or MTT 148.....	3 hours
WKO 133, MTT 147, ENT 106, or DDT 117.....	3 hours
WKO 134, INT 126, or ENT 242.....	3 hours

<b>Total Hours Required for Short-Term Certificate .....</b>	<b>12 hours</b>
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## ALLIED HEALTH PROGRAMS

Northeast Alabama Community College is involved in a cooperative linkage program with other community colleges. The first year general education prerequisite courses are completed at Northeast. After acceptance to the health program, students may transfer to complete coursework in their chosen field of study. The following programs are offered through this arrangement:

- Dental Assisting
- Dental Hygiene
- Diagnostic Imaging
- Diagnostic Medical Sonography
- Health Information Technology
- Clinical Laboratory Technician
- Occupational Therapy Assistant
- Physical Therapy Assistant
- Respiratory Therapy

For specific details regarding each program, students should contact Dr. Sharon Totten, Director of Advising, ([tottens@nacc.edu](mailto:tottens@nacc.edu)) for more information. Office: 100 Wallace Administration Building (WA), phone ext. 2245.

Below are some examples of Allied Health Programs:

### **Associate in Applied Science in Diagnostic Imaging**

This program is designed to provide technologists for Diagnostic Imaging Departments of hospitals and clinics. Students are taught the fundamental principles underlying all phases of Radiologic Technology. Upon graduation, the student is eligible to apply to take the registry examination of the American Registry of Radiologic Technologists (65 1-687-4448). According to the American Registry of Radiologic Technologists, application for certification to practice as an R.T. may be denied if a person has been convicted of a felony, is guilty of a crime involving moral turpitude, and/or has displayed other grounds for denial by law.

### **Associate in Applied Science in Physical Therapist Assistant**

The Physical Therapist Assistant (PTA) is a skilled technical health care worker who assists the physical therapist in providing services that help improve mobility, relieve pain, and prevent or limit permanent physical disabilities of patients suffering from injuries or disease. Patients include accident victims and individuals with disabling conditions such as low-back pain, arthritis, heart disease, fractures, head injuries, and cerebral palsy. Duties of the physical therapist assistant are varied but include rehabilitation of orthopedic, neurological, pediatric, and sports related problems. Once a patient is evaluated and a treatment plan is designed by the physical therapist, the physical therapist assistant can provide many aspects of treatment, as prescribed by the therapist. Components of treatment procedures performed by these workers involve exercise, massage, electrical stimulation, paraffin baths, hot and cold packs, traction, and ultrasound. The physical therapist assistant is responsible for reporting patient responses and treatment outcomes to the

physical therapist. Physical therapists assistants are employed by hospitals, rehabilitation centers, nursing homes, home health care agencies, private practices and other specialized health care settings.

### **Associate in Applied Science in Respiratory Therapy**

A respiratory therapist is responsible for administering, under physician's prescription, many types of breathing therapeutics, and utilizing specialized breathing, aerosol and humidification equipment. These include the use of oxygen or oxygen mixtures, chest physiotherapy, mechanical ventilation, and aerosol medications. Respiratory therapists evaluate and treat all types of patients, ranging from premature infants whose lungs are not fully developed to elderly people whose lungs may be diseased. Respiratory therapists provide temporary relief to patients with chronic asthma or emphysema, as well as emergency care to patients who are victims of a heart attack, stroke, trauma, drowning, or shock. They perform limited physical examinations, and conduct diagnostic tests that assess breathing capacities and determine the concentration of oxygen and other gases in patients. The respiratory therapist works closely with the physician and also directly with the patient in the treatment situation by performing regular assessments of patients and equipment.

### **Associate in Applied Science in Surgical Technician**

Surgical technologists are allied health professionals, who are an integral part of the team of medical practitioners providing surgical care to patients. Surgical technologists work under the supervision of a surgeon, ensuring that the operating room environment is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety. Surgical technologists possess expertise in the theory and application of sterile and aseptic technique and combine the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

### **Associate in Applied Science in Funeral Service**

The Funeral Service Education Program is designed for those who have a state board sanctioned apprenticeship and who are actively seeking to satisfy their particular state licensing requirements. Students must complete an apprenticeship specified by the state in which they expect to practice before they will be eligible for licensure. The student is given a broad understanding of funeral home operation, funeral directing, public health and embalming along with a foundation in communication skills, social science and applied science. The Funeral Service Education Program requires that students complete the National Board Examination given by the International Conference of Funeral Service Examining Boards before they can graduate.

**Associate in Applied Science in Veterinary Technician**

Veterinary technicians assist veterinarians by performing duties such as teeth cleaning, electrocardiography, bandaging, wound cleaning, surgical site preparation, radiology (x-rays), some types of injections, administering oral medications, suture removal, surgery assistant, and laboratory duties to include hematology, urinalysis and blood chemistry. An Alabama veterinary technician may not perform surgery or prescribe medications. Most courses require the student to work at least 20 hours per week at an approved clinical site to complete the required clinical tasks.

**SKILLS TRAINING DIVISION**

The Skills Training Division provides educational opportunities for all adults, regardless of prior educational attainment. Most of these programs do not require a high school diploma or GED. Activities include:

- Non-credit training programs that lead to workforce credentials
- Non-credit workshops and seminars for professional or personal development
- Incumbent worker training programs
- Workforce assessments, including ACT WorkKeys®
- Certification and examination services, including Microsoft and Certiport
- Non-credit online programs and courses that lead to workforce readiness

For information about any of the services provided by the Skills Training Division, contact Ms. Julie George at 256-228-6001 or 638-4418, extension 2214.

**Short-term Non-credit Training Programs**

Training programs are offered to meet current workforce needs. Since programs are dependent upon current needs, the following list of programs and requirements are subject to change and reflect requirements at the time of printing.

**Diversified Health Occupations**

This program is designed to give graduates multiple pathways to employment in the health care field. Upon completion of the program, graduates will be eligible to take certification exams for EKG technician, phlebotomy technician, and pharmacy technician. This program does not offer college credit and will not lead to a college degree.

**Courses Required:**

Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 050	Healthcare Fundamentals	80
SDC 013	Pharmacy Technician	50
SDC 036	Phlebotomy Technician	112
SCD 025	EKG Technician	50

**EKG/Cardiovascular Technician**

This program is designed to give graduates opportunity for entry-level employment as an EKG technician. This program does not offer college credit and will not lead to a college degree. Certification as an EKG technician is available to those who qualify.

**Courses Required:**

Course Number	Course Title	Clock Hours
SCD 025	EKG Technician	50

**Home Health/Hospice Aide**

This program is designed to give graduates opportunity for entry-level employment as a nursing assistant/home health aide. This program does not offer college credit and will not lead to a college degree. Certification as a nursing assistant is available to those who qualify. Additional training in home health care will be provided as part of this program.

**Courses Required:**

Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	9
SDC 051	Nursing Assistant	90
SDC 065	Home Health Aide	50

**Nursing Assistant**

This program is designed to give graduates opportunity for entry level employment as a nursing assistant/home health aide. This program does not offer college credit and will not lead to a college degree. Certification as a nursing assistant is available to those who qualify.

**Courses Required:**

Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDC 051	Nursing Assistant	90

**Patient Care Technician**

This program is designed to give graduates multiple pathways to employment in the health care field. Upon completion of the program, graduates will be eligible to take certification exams for nursing assistant, EKG technician, and phlebotomy technician. This program does not offer college credit and will not lead to a college degree.

**Courses Required:**

Course Number	Course Title	Clock Hours
SDC 001	WorkKeys	8
SDA 050	Healthcare Fundamentals	80
SDC 051	Nursing Assistant	90
SDC 036	Phlebotomy Technician	112
SCD 025	EKG Technician	50

### Pharmacy Technician

This program is designed to give graduates pathways to employment as a pharmacy technician. Successful completers of this program will be eligible to take the national certification exam for pharmacy technicians. This program does not offer college credit and will not lead to a college degree.

#### Courses Required:

Course Number	Course Title	Clock Hours
SDA 013	Pharmacy Technician	50

### Phlebotomy Technician

This program is designed to give graduates pathways to employment as a phlebotomy technician. Successful completers of this program will be eligible to take the national certification exam for phlebotomy technicians. This program does not offer college credit and will not lead to a college degree.

#### Courses Required:

Course Number	Course Title	Clock Hours
SDA 036	Phlebotomy Technician	112

For more information about any non-credit short-term training programs, contacts Ms. Julie George at 256-228-6001, extension 2214 or 256-638-4418, extension 2214. Upcoming class schedules and cost estimates are available on the web at [www.nacc.edu/workforce](http://www.nacc.edu/workforce). Click on “Programs”.

### Workshops and Seminars

A variety of workshops and seminars for both personal and professional development are offered throughout the year. For a schedule of upcoming classes, visit [www.nacc.edu/workforce](http://www.nacc.edu/workforce). Click on “Workshops & Seminars”.

### Industry Training (Incumbent Worker Training)

Northeast Alabama Community College offers training services to area business and industry. Training can be offered on site or on campus in a variety of areas. Additionally, an Alabama Technology Network (ATN) Center is located on campus, providing a vast array of training and consulting services to business and industry. For more information about or the Alabama Technology Network, contact Mr. Ronny Kisor, ATN Director, at 256-228-6001 or 256-638-4418, extension 2265. For more information about training for business and industry, contact Julie George at 256-638-4418, ext. 2214.

### ACT WorkKeys® Assessment Career Readiness Certificate

WorkKeys® assessments give students and workers reliable, relevant information about their workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help users make better career and educational decisions. For more information about the WorkKeys® Assessment and Development Center, contact Mrs. Nancy Griggs at 256-228-6001 or 256-638-4418, extension 2217.

### Certification Services

Northeast Alabama Community College offers a certification center where interested persons may take certification examinations for a variety of areas, including Microsoft Office Specialist, Internet and Computing Core Certification (IC3), and Electronics Technicians Association, International (ETA-I). For more information or to schedule an exam, contact Ms. Julie George at 256-228-6001 or 638-4418, extension 2214 or visit [www.nacc.edu](http://www.nacc.edu).

## ALABAMA TECHNOLOGY NETWORK CENTER

The Alabama Technology Network (ATN) of the Alabama Community College System links two-year colleges, the University of Alabama System, Auburn University and the Economic Development Partnership of Alabama to solve the needs of manufacturing and service industries. The ATN center at NACC develops services to meet local and state needs, providing innovative and cost-effective solutions to enable Alabama’s existing industry to be globally competitive. The network is Alabama’s affiliate of the National Institute of Standards and Technology’s Manufacturing Extension Partnership, which provides hands-on assistance and training to small to mid-size manufacturers.

Since 1996, the Alabama Technology Network has been providing hands-on assistance and training to help address challenges and improve profitability of organizations in Alabama. Our experienced staff members provide insight, expertise, and holistic solutions that will improve business today and for the future. ATN helps organizations streamline operations, improve team performance, implement quality systems based on the voice of customers, plan strategies for future growth, and implement the latest in environmental and information technology.

The ATN center at NACC was established in October, 2005. For more information on the Alabama Technology Network at NACC visit the ATN website at <http://www.atn.org> or call the ATN office at 256-638-8968.

# NURSING PROGRAM

**Associate in Applied Science Degree –  
5 Semesters/Two Academic Years**

**Practical Nursing Certificate –  
3 Semesters/One Academic Year**

The nursing program is an integral part of Northeast Alabama Community College and accepts the mission statement and the goals of Northeast Alabama Community College. The nursing curriculum combines general education and nursing education courses. The Associate in Applied Science Degree is awarded by Northeast to the student who successfully completes all requirements of the nursing program. Students in the program are eligible after successful completion of the first three semesters for the Practical Nursing certificate.

The graduate of the associate degree program is eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEX-RN) leading to licensure as a registered nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Completers of the practical nursing program are awarded a certificate and are eligible to apply to the State Board of Nursing to take the National Council Licensure Examination (NCLEX-PN) leading to licensure as a practical nurse. The review of the application by the State Board of Nursing determines eligibility of the applicant to take the licensure examination.

Legal requirements for licensure in the State of Alabama are listed in the Alabama Board of Nursing Administrative Code. The applicant for licensure examination should be aware that eligibility for initial and continuing licensure in Alabama includes questions concerning such matters as convictions of criminal offenses, convictions for driving under the influence of drugs/alcohol, treatment for mental illness, treatment for chemical dependency, disciplinary action by a state board of nursing, placed on a state/federal abuse registry, or court-martialed, disciplined, or administratively discharged by the military. The application to take the licensure examination may be denied by the State Board of Nursing if all the requirements as listed in the Alabama Board of Nursing Administrative Code are not met by the applicant. Although these policies refer specifically to Alabama, other states have similar stipulations regarding licensure. Individuals must meet the following criteria for initial licensure as a nurse.

1. Complete all requirements for graduation from an approved nursing program.
2. Receive approval by the State Board of Nursing to take the National Council Licensure Examination (NCLEX).
3. Achieve a passing score on the National Council Licensure Examination (NCLEX).

## ACCREDITATION STATUS:

Approved by Alabama Community College System Board of Trustees

Approved by Alabama Board of Nursing

Accredited by the Accreditation Commission for Education in Nursing (ACEN)



## ADMISSION REQUIREMENTS:

1. Unconditional admission to the College. In order to be unconditionally admitted, the Admissions Office must receive official transcripts of all attempted college work.
2. Complete application to the Nursing Program by **MARCH 1st**. (It is the student's responsibility to verify all required documentation has been received by the published deadline).
3. A minimum of 2.5 grade point average (GPA) for nursing required core courses.
4. Minimum 2.0 cumulative GPA at current institution (which includes all course work completed) or cumulative 2.0 GPA at institution from which student is transferring.
5. A minimum of 2.5 grade point average (GPA) cumulative high school for students without prior college courses (GED will be used if applicable).
6. A minimum of 18 ACT composite score National or Residual.
7. Eligibility for ENG 101, BIO 201, and MTH 100 as determined by college policy.
8. Good standing with the college.
9. Must meet **ESSENTIAL FUNCTIONS** required for nursing.

Admission to the nursing program is competitive and the number of students accepted is limited by the number of faculty and clinical facilities available. **Meeting minimal requirements does not guarantee acceptance.**

Should the student decline acceptance or be denied admission based on qualifications, he/she must re-submit an application by **MARCH 1st** of the following academic year. It is the student's responsibility to adhere to the admission requirements described and verify all required documentation has been received by published deadline. **Students should contact a nursing advisor for clarification, if needed.**

**IT IS THE RESPONSIBILITY OF THE STUDENT TO KEEP THE NURSING APPLICATION UPDATED. APPLICANTS ARE ENCOURAGED TO VERIFY COMPLETION OF PROFILE PRIOR TO THE FILING DEADLINE.**

**SELECTION OF APPLICANTS**

After meeting all minimum requirements, applicants are ranked based upon a point awarded system as follows:

1. ACT score of 18 or higher. Possible points awarded are 18 – 36 based on score, with no time limit on when the test was taken.
2. Points from nursing required college courses (BIO 201, BIO 202, ENG 101, and MTH 100 or higher)  
Points will be awarded for grades as follows: **A = 3 points, B = 2 points, C = 1 point**; and **CLEP Credit = 2 points**
3. Additional points awarded as determined by Northeast Alabama Community College policy:  
BIO 201, BIO 202, ENG 101, and MTH 100\*↑ if grade is A in each course (3 points)  
Pre-Nursing Seminar session (2 points)  
Course work completed at Northeast Alabama Community College (5 points)

COURSE POINTS		
COURSE	GRADE	POINTS
BIO 201		
BIO 202		
ENG 101		
MTH 100* ↑		
* MTH 110, 112, 113, 120, 125		
<b>TOTAL COURSE POINTS</b>		

**Course Grade = Points**  
**A = 3 points**  
**B = 2 points**  
**C = 1 point**

**CLEP Credit = 2 points**

No time limit on when course was taken

\_\_\_\_\_ **Course Points** (12 Points Possible)

\_\_\_\_\_ **BIO 201, BIO 202, ENG 101, MTH 100\*↑if grade is A** (3 points)

\_\_\_\_\_ **Pre-Nursing Seminar** (2 points)

\_\_\_\_\_ **Northeast Alabama Community College Loyalty Points** (5 points)

\_\_\_\_\_ **ACT Score** (18 to 36 Points Possible)  
(Minimum score required 18 / No time limit on when ACT was taken)

**TOTAL POINTS EARNED**

**Applicant must also meet the following admission criteria:**

- Be unconditionally admitted to the college. In order to be unconditionally admitted, the Admissions Office must receive official transcripts of **all** attempted college work.
- Minimum of 18 ACT composite score National or Residual.
- Minimum 2.5 GPA for nursing required academic core courses.
- Minimum 2.5 GPA cumulative high school GPA for students without prior college courses (GED will be used if applicable).
- Minimum 2.0 cumulative GPA at current institution (which includes all course work completed) or cumulative 2.0 GPA at institution from which student is transferring.
- Meet the Essential Functions for nursing.
- If not already completed, student must be eligible to take ENG 101, BIO 201, and MTH 100 the first semester accepted into the nursing program.

**PROGRAM REQUIREMENTS:**

1. Student must comply with legal, moral, and legislative standards in accordance with the Alabama Board of Nursing Administrative Code.
2. Student is required to follow Federal HIPPA regulations regarding client privacy. Student must respect the client's right to privacy by protecting confidential information unless obligated to disclose in a court of law under proper authorization or legal compulsion (Alabama Board of Nursing Administrative Code). **Students may be expelled from the nursing program for failing to comply with this requirement.**
3. Student must take all tests according to the scheduled dates. If student misses a test, he/she must provide appropriate documentation in order to receive a make-up test. Make-up exams will be given prior to the final exam. If more than one exam is missed, all exams must be made up on the same day.



4. A student will be dismissed from the nursing program when not adhering to the policies and procedures of the facility to which they are assigned, Quality Safety Education Standards for nurses, or the program standards for client safety.
5. A rating of unsatisfactory in clinical performance will result in a grade of "F" for that course regardless of any other grading component in the course.
6. A student who has been UNSATISFACTORY in providing **safe effective client care** in the clinical area will not be allowed readmission into the nursing program.
7. Student is expected to be academically honest. Any student found guilty of cheating may be removed from the program with a grade of "F."
8. Student will have professional liability insurance throughout the nursing program. Fees are included in tuition.
9. Student must show documentation of current cardiopulmonary resuscitation (CPR) certification at the healthcare provider level prior to placement in a clinical agency.
10. Student is required to obtain a health evaluation by a qualified health practitioner on the form provided by the nursing department. **(MUST BE UPLOADED TO ESS BY DEADLINE DATE.)**
11. Student is required to obtain an evaluation of the Essential Functions as determined by a qualified health practitioner on forms provided by the nursing program. The evaluation must be submitted to ESS by deadline date. Additional health examinations may be required depending on physical or psychological alterations which may occur during the program of study.
12. The student is required to receive a series of three Hepatitis B vaccines, obtain a Positive titer or sign a declination policy provided by the nursing department. Student is strongly encouraged to keep their flu vaccine up to date.
13. **The student is required to submit to a pre-clinical drug screen at a time designated by the nursing faculty.** Failure to comply with this may result in withdrawal from the program. Random drug screens may be required should the student exhibit behaviors indicative of substance abuse during a clinical experience or during on campus clinical lab. Admission drug screen and annual drug screen fees are included in tuition. Any additional drug screen is performed at the student's expense. A positive drug screen will prohibit the student from completing the clinical requirements of the nursing curriculum.
14. As required by the clinical agencies, the student is required to submit to a criminal background check prior to placement in a clinical facility. Students who have a positive background check will not be allowed to complete the clinical component of the nursing course and would be required to withdraw from the nursing course.
15. Student must be registered prior to attending class. Children are not allowed in the classroom, clinical lab or computer lab at any time.

16. Students are required to participate in testing programs and remediation included throughout the nursing curriculum.

**COURSE GRADE:**

A course grade will be determined based on theory and clinical performance. **Students must achieve a grade of "75%" or above in each required nursing course to continue in the nursing program. A grade below "75%" will result in a "D" or an "F" depending on the numerical score.**

<b>GRADING SCALE:</b>	<b>90 – 100</b>	<b>= A</b>
	<b>80 – 89</b>	<b>= B</b>
	<b>75 – 79</b>	<b>= C</b>
	<b>60 – 74</b>	<b>= D</b>
	<b>59 and below</b>	<b>= F</b>

**ATTENDANCE POLICY FOR NURSING STUDENTS:**

**Theory**

The student must be present 80% of the scheduled class dates in order to demonstrate the expected course outcomes and successfully apply theoretical concepts to the clinical practicum.

**Clinical Laboratory**

Attendance in the clinical laboratory is required at 100% in order to accomplish the clinical laboratory objectives. Clinical absences must be made up prior to beginning the next semester. Upon return to class, the student must make arrangements for making up the campus lab and clinical absence with the clinical instructor. Extenuating circumstances will be evaluated by the Nursing Faculty Committee.

**Responsibility to Agencies**

All students are assigned to various health care agencies for clinical experiences. Students scheduled in health care agencies for clinical experiences must be acceptable to those agencies. The student is responsible for complying with policies and procedures required by the agency. Failure to meet this requirement will mean that the student is excluded from a required clinical experience and will be unable to complete the nursing program.

**STUDENT ORGANIZATIONS AND ACTIVITIES:**

Students enrolled in the nursing program participate in campus organizations as well as social, cultural and college activities the same as other college students. In addition to the regular activities at the College, students in nursing may belong to the National Student Nurses' Association.

**ADDITIONAL EXPENSES:**

These expenses are approximate and in no way reflect expenses each individual may incur during the program.

This list is not all inclusive.

Uniforms, lab coat, stethoscope and blood pressure cuff, etc. (Approximately \$350)

Professional liability insurance

Textbooks and other resources (\$1,000 each fall semester)

- Miscellaneous books and other resources (approximately \$500)
- Laboratory packet (approximately \$65)
- Evaluation of Essential Functions by healthcare provider
- Hepatitis B vaccination series
- ESS (Includes Criminal Background Check)
- Required immunizations (Includes MMR and Tdap or titre)
- Drug Screening Tests (\$70)
- Testing and learning resource fees (Approximately \$200 per semester)
- Transportation to and from clinical agencies

Additional expenses anticipated during the final semester of the nursing program are approximate. They are as follows:

NCLEX Application and Licensure	\$285.00
Graduation Fee	58.00
Nursing Pin (Optional)	55.00

**PROGRESSION POLICY FOR THE NURSING PROGRAM**

In order to continue in the nursing program, the student must meet the following criteria:

1. Maintain a grade of “C” or better in all required general education and nursing courses.
2. Unless completed previously, students must complete all required general education courses according to The Alabama Community College System Nursing Education curriculum.
3. Be acceptable by clinical agencies for clinical experience.
4. Maintain ability to meet Essential Functions for nursing with or without reasonable accommodations.
5. Maintain program health requirements.
6. Maintain current CPR course completion at the Healthcare Provider Level.
7. Students with an unsuccessful attempt in a nursing course (W, D, or F) cannot progress until the course is repeated successfully. Course repetition will be based on instructor availability and program resources.

**NON PROGRESSION:**

1. A total of two unsuccessful attempts in two separate semesters (D, F, or W) in the nursing program will result in dismissal from the program.
2. Students who have a withdrawal or failure in a nursing course and are eligible to return to that course will be considered for reinstatement to the program.
3. A student may be reinstated to the nursing program only one time. Reinstatement must be within one year from the semester of non-progression. Reinstatement is not guaranteed due to limitations in clinical spaces. All nursing program admission standards must be met.

4. A student must have a 2.0 cumulative GPA at the current institution for reinstatement.
5. If a student has a documented extenuating circumstance that should be considered related to a withdrawal or failure, this student may request a hearing before the Admission Committee or other appropriate college committees for a decision on repeating a course (reinstatement) or readmission to the program.

**REINSTATEMENT:**

In order to be reinstated, a student must:

1. Schedule an appointment with a nursing faculty/advisor to discuss eligibility for reinstatement.
2. Apply for reinstatement to the nursing program and submit the application with ACT test results and Letter of Intent by published deadlines.
3. Apply for readmission to the College if not currently enrolled. College readmission must be accomplished by published deadlines.
4. Apply to the nursing program for reinstatement by the end of the semester following the term of withdrawal or failure in the nursing program.
5. Demonstrate competency in all previous nursing courses successfully completed with validation of clinical nursing skills and/or written/computerized exams.
6. Student must have a 2.0 cumulative GPA at the current institution for reinstatement.
7. Meet acceptable criteria for placement at all clinical agencies for clinical experiences.
8. Adhere to nursing curriculum or program policies and procedures in effect at the time of reinstatement.
9. Update immunizations, demonstrate current, accepted CPR course completion at the Healthcare Provider Level, and background screening according to program policy.
10. Agree that reinstatement to the nursing program is not guaranteed. Reinstatement may be denied. Possible reasons for denial include, but are not limited to, the following:
  - a. Grade Point Average (GPA) is less than 2.0 from courses completed at current institution.
  - b. Refusal by clinical agencies to accept the student for clinical experiences.
  - c. Over twelve (12) months have elapsed since the student was enrolled in a nursing course.
  - d. Failure to demonstrate competency in all previous nursing courses successfully completed.
  - e. Space unavailability in a course in which the student wishes to be reinstated.
  - f. Student has been dismissed from the program.
11. Agree that dismissal from the previous program for disciplinary reasons and/or unsafe and or unsatisfactory client care in the clinical area prohibits reinstatement or admission back into the nursing program.
12. Understand that additional requirements for remediation or satisfactory completion of a student success seminar may be required by the nursing program.

**READMISSION:**

Students not eligible for program reinstatement may apply for program admission as a new student and must submit all application criteria. If accepted as a new student, the student must take or retake all nursing program courses. Students who are not in good standing, such as those who have been dismissed for disciplinary reasons, and/or unsafe client care are not eligible for admission. Students must adhere to the nursing curriculum and program policies and procedures in effect at the time of readmission.

**TRANSFER POLICY:**

The transfer policy applies only to students desiring to transfer between Alabama Community College System institutions. It does not apply to students wishing to transfer from other institutions.

1. Must meet minimum admission standards for the nursing program.
2. Must possess a grade of "C" or better in all required nursing program courses taken at another institution and possess a minimum of a 2.0 cumulative GPA at time of transfer.
3. Minimum 2.0 cumulative GPA at current institution (which includes all course work completed) or cumulative 2.0 GPA at institution from which student is transferring.
4. Dean/Director of previous nursing program must provide a letter of eligibility for progression in previous nursing program.
5. Must comply with all program policy requirements at accepting institution.
6. Complete at least 25% of the nursing program required courses for degree/certificate at the accepting institution.
7. Must meet acceptability criteria for placement at clinical agencies for clinical experience.
8. Acceptance of transfer students into nursing programs is limited by the number of faculty and clinical facilities available. Meeting minimal requirements does not guarantee acceptance.

**NURSING CURRICULUM PLAN**

Course Number	Course Title		Course Credits
<b>FALL SEMESTER</b>			
NUR 112	Fundamental Concepts of Nursing	(4-2-1)	7
BIO 201	Anatomy and Physiology I	(3-1-0)	4
MTH 100	Intermediate College Algebra	(3-0-0)	3
			14
<b>SPRING SEMESTER</b>			
NUR 113	Nursing Concepts I	(4-1-3)	8
BIO 202	Anatomy and Physiology II	(3-1-0)	4
ENG 101	English Composition I	(3-0-0)	3
PSY 200	General Psychology	(3-0-0)	3
			18

**SUMMER SEMESTER**

NUR 114	Nursing Concepts II	(5-0-3)	8
NUR 115	Evidence Based Clinical Reasoning	(1-0-1)	2
SPH 107	Fundamentals of Speech	(3-0-0)	3
			13

**STUDENTS COMPLETING NUR 112, NUR 113, NUR 114, NUR 115, AND REQUIRED ACADEMIC COURSES WILL BE AWARDED THE PRACTICAL NURSING CERTIFICATE.**

**FALL SEMESTER**

NUR 211	Advanced Nursing Concepts	(4-0-3)	7
BIO 220	General Microbiology	(2-2-0)	4
PSY 210	Human Growth and Development	(3-0-0)	3
			14

**SPRING SEMESTER**

NUR 221	Advanced Evidence Based Clinical Reasoning	(3-0-4)	7
	Humanities/Fine Arts Elective	(3-0-0)	3
			10

**TOTAL HOURS 69**

**THE ALABAMA COMMUNITY COLLEGE SYSTEM NURSING PROGRAMS ESSENTIAL FUNCTIONS**

The Alabama Community College System endorses the Americans' with Disabilities Act. In accordance with College policy, when requested, reasonable accommodations may be provided for individuals with disabilities.

The essential functions delineated below are necessary for nursing program admission, progression and graduation and for the provision of safe and effective nursing care. The essential functions include but are not limited to the ability to:

- 1) Sensory Perception
  - a) Visual
    - i) Observe and discern subtle changes in physical conditions and the environment
    - ii) Visualize different color spectrums and color changes
    - iii) Read fine print in varying levels of light
    - iv) Read for prolonged periods of time
    - v) Read cursive writing
    - vi) Read at varying distances
    - vii) Read data/information displayed on monitors/equipment
  - b) Auditory
    - i) Interpret monitoring devices
    - ii) Distinguish muffled sounds heard through a stethoscope
    - iii) Hear and discriminate high and low frequency sounds produced by the body and the environment
    - iv) Effectively hear to communicate with others
  - c) Tactile

- i) Discern tremors, vibrations, pulses, textures, temperature, shapes, size, location and other physical characteristics
- d) Olfactory
  - i) Detect body odors and odors in the environment
- 2) Communication/Interpersonal Relationships
  - a) Verbally and in writing, engage in a two-way communication and interact effectively with others, from a variety of social, emotional, cultural and intellectual backgrounds
  - b) Work effectively in groups
  - c) Work effectively independently
  - d) Discern and interpret nonverbal communication
  - e) Express one's ideas and feelings clearly
  - f) Communicate with others accurately in a timely manner
  - g) Obtain communications from a computer
- 3) Cognitive/Critical Thinking
  - a) Effectively read, write and comprehend the English language
  - b) Consistently and dependably engage in the process of critical in order to formulate and implement safe and ethical nursing decisions in a variety of health care settings
  - c) Demonstrate satisfactory performance on written examinations including mathematical computations without a calculator
  - d) Satisfactorily achieve the program objectives
- 4) Motor Function
  - a) Handle small delicate equipment/objects without extraneous movement, contamination or destruction
  - b) Move, position, turn, transfer, assist with lifting or lift and carry clients without injury to clients, self or others
  - c) Maintain balance from any position
  - d) Stand on both legs
  - e) Coordinate hand/eye movements
  - f) Push/pull heavy objects without injury to client, self or others
  - g) Stand, bend, walk and/or sit for 6-12 hours in a clinical setting performing physical activities requiring energy without jeopardizing the safety of the client, self or others
  - h) Walk without a cane, walker or crutches
  - i) Function with hands free for nursing care and transporting items
  - j) Transport self and client without the use of electrical devices
  - k) Flex, abduct and rotate all joints freely
  - l) Respond rapidly to emergency situations
  - m) Maneuver in small areas
  - n) Perform daily care functions for the client
  - o) Coordinate fine and gross motor hand movements to provide safe effective nursing care
- p) Calibrate/use equipment
- q) Execute movement required to provide nursing care in all health care settings
- r) Perform CPR and physical assessment
- s) Operate a computer
- 5) Professional Behavior
  - a) Convey caring, respect, sensitivity, tact, compassion, empathy, tolerance and a healthy attitude toward others
  - b) Demonstrate a mentally healthy attitude that is age appropriate in relationship to the client
  - c) Handle multiple tasks concurrently
  - d) Perform safe, effective nursing care for clients in a caring context
  - e) Understand and follow the policies and procedures of the College and clinical agencies
  - f) Understand the consequences of violating the student code of conduct
  - g) Understand that posing a direct threat to others is unacceptable and subjects one to discipline
  - h) Meet qualifications for licensure by examination as stipulated by the Alabama Board of Nursing
  - i) Not to pose a threat to self or others
  - j) Function effectively in situations of uncertainty and stress inherent in providing nursing care
  - k) Adapt to changing environments and situations
  - l) Remain free of chemical dependency
  - m) Report promptly to clinical and remain for 6-12 hours on the clinical unit
  - n) Provide nursing care in an appropriate time frame
  - o) Accepts responsibility, accountability, and ownership of one's actions
  - p) Seek supervision/consultation in a timely manner
  - q) Examine and modify one's own behavior when it interferes with nursing care or learning

**STUDENT STATEMENT**

I have reviewed the Essential Functions for this program and I certify that to the best of my knowledge I have the ability to perform these functions. I understand that a further evaluation of my ability may be required and conducted by the nursing faculty if deemed necessary to evaluate my ability prior to admission to the program and for retention and progression through the program. Describe any special accommodations requested.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

**PHYSICIAN/CRNP STATEMENT**

Is this person’s mental and physical health sufficient to perform the classroom and clinical duties of a nursing student?  
 YES \_\_\_ NO \_\_\_ If no, please explain (use additional sheet if needed).

\_\_\_\_\_  
 Physician/CRNP Signature Date

\_\_\_\_\_  
 Printed Name

Upon admission, an individual who discloses a disability can request reasonable accommodations. Individuals will be asked to provide documentation of the disability in order to assist with the provision of appropriate reasonable accommodations. The respective College will provide reasonable accommodations but is not required to substantially alter the requirements or nature of the program or reasonable accommodations that inflict an undue burden on the respective College. In order to be admitted one must be able to perform all of the essential functions with or without reasonable accommodations. If an individual’s health changes during the program of learning, so that the essential functions cannot be met with or without reasonable accommodations, the student will be withdrawn from the nursing program. The nursing faculty reserves the right at any time to require an additional medical examination at the student’s expense in order to assist with the evaluation of the student’s ability to perform the essential functions.

Requests for reasonable accommodations should be directed to the Admissions Office.

**Associate In Applied Science Degree  
 Associate Degree Nurse (RN)**

**Area I – Written Composition**

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

**Area II – Humanities and Fine Arts**

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Humanities/Fine Arts Elective ..... 3 hours  
 Ethics preferred: PHL 206  
 Choose from: ART 100, 203, 204; MUS 101; PHL 206;  
 REL 100, 151, 152; SPA 201, 202; THR 120, 126  
**Total..... 6 hours**

**Area III – Natural Science and Mathematics**

MTH 100 Intermediate College Algebra ..... 3 hours  
 BIO 201 Human Anatomy and Physiology I ..... 4 hours  
 BIO 202 Human Anatomy and Physiology II ..... 4 hours  
 BIO 220 General Microbiology ..... 4 hours  
**Total..... 15 hours**

**Area IV – History, Social, and Behavioral Sciences**

PSY 200 General Psychology ..... 3 hours  
 PSY 210 Human Growth and Development ..... 3 hours  
**Total..... 6 hours**

**Area V – Pre-Professional, Major, and Elective Courses**

NUR 112 Fundamental Concepts of Nursing ..... 7 hours  
 NUR 113 Nursing Concepts I ..... 8 hours  
 NUR 114 Nursing Concepts II ..... 8 hours  
 NUR 115 Evidenced Based Clinical Reasoning ..... 2 hours  
 NUR 211 Advanced Nursing Concepts ..... 7 hours  
 NUR 221 Advanced Evidence Based Clinical Reasoning ..... 7 hours  
**Total..... 39 hours**  
**Total Hours Required for Degree ..... 69 hours**

**EMERGENCY MEDICAL SERVICES**

The Emergency Medical Services (EMS) Program, in accordance with the goals and mission of Northeast Alabama Community College, is committed to providing quality education and preparation to those seeking education in Emergency Medical Services.

It is the goal of the EMS education program at NACC to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Emergency Medical Services (EMS) personnel treat millions of patients annually in the United States. Many of these patients have complicated medical and/or trauma conditions. Paramedics are required to have considerable knowledge, skill, and judgment to treat patients in the out-of-hospital setting. High quality out-of-hospital emergency care is an important part of the United States health care system.

Based on the National EMS Scope of Practice model, the four levels of nationally recognized providers are Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT) and Paramedic.

Emergency Medical Responder (EMR) renders on-scene emergency care while awaiting additional EMS response. In many communities, EMRs provide care as first responders in the workplace and industry, fire responders and rescue organizations. EMR courses are organized on request. Upon successful course completion and certification by examination through the National Registry of EMTs, candidates may apply for licensure with the Alabama Department of Public Health, Office of EMS. EMR certification and licensure is not required to enter the EMS Program.

Those seeking to enter the EMS program of study have options of earning short term certificates at the EMT and Advanced EMT level, and a certificate at the Paramedic level or an Associate in Applied Science Degree–Emergency Medical Services.

The Emergency Medical Technician’s (EMT) scope of practice includes basic, non-invasive interventions to reduce the morbidity and mortality associated with acute out-of-hospital medical and traumatic emergencies. The Emergency Medical Technician level is the minimum licensure level for personnel transporting patients in ambulances.

The Advanced EMT (AEMT) scope of practice includes basic, limited advanced and pharmacological interventions to reduce the morbidity and mortality associated with acute out-of-

hospital medical and traumatic emergencies. A current Alabama EMT license is required to enter the AEMT program.

Paramedics are the most advanced level of EMS care providers licensed by the state of Alabama. The Paramedic’s scope of practice includes basic and advanced life support education and skills focused on the acute management and transportation of the broad range of patients who access the emergency medical system. A current EMT license is required for program admission along with specific academic pre-requisite courses.

### Associate in Applied Science Degree Emergency Medical Services

The Northeast Alabama Community College Emergency Medical Services Education Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.com) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

#### Area I – Written Composition

ENG 101 English Composition I ..... 3 hours  
**Total..... 3 hours**

#### Area II – Humanities and Fine Arts

SPH 107 Fundamentals of Public Speaking ..... 3 hours  
 Humanities and Fine Arts Elective ..... 3 hours  
 Choose from: ART 100, 203, 204; MUS 101; PHL 206\*\*, REL 100, 151, 152; SPA 201, 202; THR 120, 126  
 \*\*PHL 206 is recommended.

**Total..... 6 hours**

#### Area III – Natural Science and Mathematics

BIO 201 Human Anatomy and Physiology I ..... 4 hours  
 BIO 202 Human Anatomy and Physiology II ..... 4 hours  
 MTH 116 or any 100-level MTH ..... 3-4 hours  
**Total..... 11-12 hours**

#### Area IV – History, Social and Behavioral Sciences

Area IV Elective ..... 3 hours  
 Choose from: ECO 231, 232; GEO 100; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210  
**Total..... 3 hours**

#### Area V – Pre-Professional, Major, and Elective Courses

EMS 106 Medical Terminology for Health Professionals ..... 2 hours  
 EMS 118 Emergency Medical Technician ..... 9 hours  
 EMS 119 Emergency Medical Technician Clinical ..... 1 hour  
 EMS 240 Paramedic Operations ..... 2 hours  
 EMS 241 Paramedic Cardiology ..... 3 hours  
 EMS 242 Paramedic Patient Assessment ..... 2 hours  
 EMS 243 Paramedic Pharmacology ..... 1 hour  
 EMS 244 Paramedic Clinical I ..... 1 hour  
 EMS 245 Paramedic Medical Emergencies ..... 3 hours  
 EMS 246 Paramedic Trauma Management ..... 3 hours  
 EMS 247 Paramedic Special Populations ..... 2 hours  
 EMS 248 Paramedic Clinical II ..... 3 hours  
 EMS 253 Paramedic Transition to the Workforce ..... 2 hours

EMS 254 Advanced Competencies for Paramedic ..... 2 hours  
 EMS 255 Paramedic Field Preceptorship ..... 5 hours  
 EMS 256 Paramedic Team Preceptorship ..... 1 hour  
 EMS 257 Paramedic Applied Pharmacology ..... 2 hours  
 EMS Elective ..... 0-7 hours  
**Total Area V ..... 44 hours**  
**Total Hours Required for Degree ..... 67-75 hours**

#### Emergency Medical Technician (EMT) (Short-Term Certificate)

EMS 106 Medical Terminology for Health Professionals ..... 2 hours  
 EMS 118 Emergency Medical Technician (EMT) ..... 9 hours  
 EMS 119 EMT Clinical ..... 1 hour  
**Total Hours Required for Short-Term Certificate ..... 12 hours**

#### Advanced EMT (AEMT) (Short-Term Certificate)

*Current Alabama EMT license is required for registration.*

EMS 189 or BIO 201 ..... 4 hours  
 EMS 155 Advanced Emergency Medical Technician (AEMT) ..... 7 hours  
 EMS 156 AEMT Clinical ..... 2 hours  
**Total Hours Required for Short-Term Certificate ..... 13 hours**

#### Paramedic (Certificate)

*Current AL EMT license is required for registration.*

ENG 101 English Composition I ..... 3 hours  
 MTH 116 or any 100-level MTH ..... 3-4 hours  
 EMS 189 or BIO 201 ..... 4 hours  
 EMS 240 Paramedic Operations ..... 2 hours  
 EMS 241 Paramedic Cardiology ..... 3 hours  
 EMS 242 Paramedic Patient Assessment ..... 2 hours  
 EMS 243 Paramedic Pharmacology ..... 1 hour  
 EMS 244 Paramedic Clinical I ..... 1 hour  
 EMS 245 Paramedic Medical Emergencies ..... 3 hours  
 EMS 246 Paramedic Trauma Management ..... 3 hours  
 EMS 247 Paramedic Special Populations ..... 2 hours  
 EMS 248 Paramedic Clinical II ..... 3 hours  
 EMS 253 Paramedic Transition to the Workforce ..... 2 hours  
 EMS 254 Advanced Competencies for Paramedic ..... 2 hours  
 EMS 255 Paramedic Field Preceptorship ..... 5 hours  
 EMS 256 Paramedic Team Leadership ..... 1 hour  
 EMS 257 Paramedic Applied Pharmacology ..... 2 hours  
**Total Hours Required for Certificate ..... 42-43 hours**

### Suggested Career Pathway in Emergency Medical Services – Paramedic

This is a suggested Career Pathway for full-time students. Other options are available for part-time students. Students should consult an advisor.

#### Semester 1

EMS 106 Medical Terminology for Health Professionals ..... 2 hours  
 EMS 118 Emergency Medical Technician ..... 9 hours  
 EMS 119 Emergency Medical Technician Clinical ..... 1 hour  
**Total..... 12 hours**

*\*Eligible for a Short-Term Certificate in Emergency Medical Services-Basic EMT and to sit for NREMT EMT Certification*

**Semester 2**

ENG 101 English Composition I.....	3 hours
BIO 201 Human Anatomy and Physiology I.....	4 hours
MTH 116 or any 100-level MTH.....	3 hours
Area II Humanities & Fine Arts Elective.....	3 hours
<b>Total.....</b>	<b>13 hours</b>

*\*Eligible for Certificate in Emergency Medical Services-Paramedic*

**Semester 3**

EMS 240 Paramedic Operations.....	2 hours
EMS 241 Paramedic Cardiology.....	3 hours
EMS 242 Paramedic Patient Assessment.....	2 hours
EMS 257 Paramedic Applied Pharmacology.....	2 hours
EMS 243 Paramedic Pharmacology.....	1 hours
EMS 244 Paramedic Clinical I.....	1 hours
BIO 202 Human Anatomy and Physiology II.....	4 hours
<b>Total.....</b>	<b>15 hours</b>

**Semester 4**

EMS 245 Paramedic Medical Emergencies.....	3 hours
EMS 246 Paramedic Trauma Management.....	3 hours
EMS 247 Paramedic Special Populations.....	2 hours
EMS 248 Paramedic Clinical II.....	3 hours
SPH 107 Fundamentals of Public Speaking.....	3 hours
<b>Total.....</b>	<b>14 hours</b>

**Semester 5**

EMS 253 Paramedic Transition to the Workforce.....	2 hours
EMS 254 Advanced Competencies for Paramedic.....	2 hours
EMS 255 Paramedic Field Preceptorship.....	5 hours
EMS 256 Paramedic Team Preceptorship.....	1 hour
Area IV History, Social, and Behavioral Science.....	3 hours
<b>Total.....</b>	<b>13 hours</b>

*\*Eligible for certifications in: Advanced Cardiac Life Support, Pediatric Advanced Life Support, Pre-Hospital Trauma Life Support, Advanced Medical Life Support, Emergency Pediatric Care and The Difficult Airway Course EMS*

*\*Eligible to sit for NREMT Paramedic Certification*

**Eligible for AAS degree in Emergency Medical Services-Paramedic**

Note: Students must complete an AHA (American Heart Association) BLS Provider Course prior to attending clinical sessions. Students must maintain currency in AHA BLS Provider Course while enrolled in EMT, AEMT and Paramedic studies.

**Optional courses offered by EMS ED:**

EMS 107 EVOG (Emergency Vehicle Operator’s Course).....	1
EMS 120 Vehicle Extrication.....	2
EMS 125 High Angle Rescue I.....	2
EMS 126 High Angle Rescue II.....	2

Certification by examination is gained through the National Registry of EMTs ([www.nremt.org](http://www.nremt.org)). Upon certification, application for licensure is made to the specific EMS agency in the state one desires to practice. The Alabama Department of Public Health, Office of EMS (ADPH OEMS) issues EMS licenses in Alabama ([www.adph.org/ems](http://www.adph.org/ems)). The NREMT and ADPH OEMS (or the specific state you plan to apply to practice) may have additional requirements related to age, qualifications, criminal

background and history of substance abuse and addiction. For a comprehensive listing of state EMS agencies, please see [http://www.nremt.org/nremt/about/emt\\_cand\\_state\\_offices.asp](http://www.nremt.org/nremt/about/emt_cand_state_offices.asp).

**EMS Program Admission Requirements:**

- Unconditional admission to the College.
- Complete appropriate placement examinations.
- Schedule an advising appointment with an EMS advisor.
- Complete the EMS Program application (obtained at advisor meeting).
- Meet essential functions required for EMS (page 108-109).
- Meet pre-clinical requirements for EMS.
- Meet all additional requirements outlined in the EMS Program Handbook.

In addition to classroom and lab sessions, EMS students are required to complete course appropriate clinical activities at various healthcare and EMS organizations. Prior to clinical participation, students must meet specific agency requirements. These include a physical examination, documentation of vaccinations, satisfactory criminal background check, drug screen, orientation to policy and procedures for each agency, including appropriate dress, hygiene, patient confidentiality, and expectation of professional behaviors.

**Successful program completion is met in each EMS course with a minimum letter grade of “B” and satisfactory lab and clinical competencies. A grade of less than a “B” in any EMS course is considered unsuccessful and will not result in certificate or AAS awards, unless retaken and completed with a grade of “B.”**

**Anticipated Additional EMS Program Costs**

- Textbooks and learning resources
- Exam and licensure fees
- Professional Liability Insurance
- Clinical uniforms and supplies
- Transportation to and from clinical sites
- Physical Examination, vaccinations
- Drug Screen and Criminal Background Check
- Test Prep, Testing, and Competency Tracking Programs

The Emergency Medical Services (EMS) Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendations of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

**EMERGENCY MEDICAL SERVICES PROGRAM ESSENTIAL FUNCTIONS:**

Students entering and participating in the EMS Program (primary training) must:

**Physical Demands**

1. have the physical ability necessary to walk, climb, crawl, bend, push, pull, and lift and balance over less than ideal terrain;

- 2. have good physical stamina and endurance which would not be adversely affected by having to lift, carry, and balance at times, in excess of 125 pounds (250 pounds with assistance);
- 3. see different color spectrums;
- 4. have good eye-hand coordination and manual dexterity to manipulate equipment, instrumentation, and medications;

**Problem Solving Abilities**

- 5. be able to send and receive verbal messages as well as operate communication equipment appropriately;
- 6. be able to collect facts to organize data accurately and communicate clearly, both orally and in writing, in the English language at the ninth grade level or higher;
- 7. be able to differentiate between normal and abnormal findings in human physical conditions using visual, auditory, olfactory, and tactile observations;
- 8. be able to make good judgment decisions and exhibit problem solving skills under stressful situations;
- 9. be attentive to detail and aware of standards and rules that govern practice;
- 10. implement therapies based on mathematical calculations;

**Worker Characteristics**

- 11. possess emotional stability to be able to perform duties in life-or-death situations and in potentially dangerous social

- situations, including responding to calls in districts known to have high crime rates;
- 12. be able to handle stress and work well as part of a team;
- 13. be oriented to reality and not be mentally impaired by mind altering substances;
- 14. not be addicted to drugs or alcohol;
- 15. be able to work shifts 24 hours in length, if necessary;
- 16. be able to tolerate being exposed to extremes in the environment including variable aspects of weather, hazardous fumes, and noise;
- 17. possess eyesight in a minimum of one eye correctable to 20/20 vision and be able to determine directions according to a map. Students who desire to drive an ambulance must possess approximately 180 degrees peripheral vision capacity, must possess a valid Alabama driver's license, and must be able to safely and competently operate a motor vehicle in accordance with state law; and
- 18. have the ability to follow established criteria even in the absence of direct supervision.



**STUDENT VERIFICATION**

Directions: Read the declarations below and check and sign only one option.

**OPTION A**

I have read the Essential Functions above and to the best of my knowledge I currently have the ability to fully meet these standards and activities.

**OPTION B**

I have read the Essential Functions above and to the best of my knowledge I can meet these standards with the following accommodations.

**OPTION C**

I have read the Essential Functions above and I am requesting an appointment with the Disability Services Coordinator to discuss reasonable accommodations.

Student's Name (Print)	Student's Signature	Date
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**FOR OFFICE USE ONLY**

Accommodation provided (Explain) \_\_\_\_\_

Unable to provide accommodation (Explain) \_\_\_\_\_

Student's Name (Print)	Student's Signature	Date
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