

THE GENERAL EDUCATION CORE FOR THE ASSOCIATE IN APPLIED SCIENCE 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 provided here reveals the general guidelines from Board Policy, and is used by the college to design specific degree programs. A student pursuing any of the AAS degrees must follow the specific requirements for his/her program, found in this section of the catalog.

Area I: Written Composition I and II.....3-6 Credit Hours

- Must complete ENG 101.
Remaining semester hours may be selected from either ENG 102 or Technical Writing.

Area II: Humanities, Fine Arts, and Speech.....3-6 Credit Hours

- Areas I and II must include a minimum of 9 hours.
- Must complete 3 semester hours in Speech unless provisions for addressing Oral Communication Competencies represent an integral module in a required discipline-specific course.
- Must complete one course in humanities and fine arts.

Humanities and Fine Arts disciplines include: Area/Ethnic Studies, Art and Art History, Foreign Languages, Humanities, Literature, Music and Music History, Philosophy, Ethics, Religious Studies, Theater and Dance.

Note: Individual colleges may establish specific course requirements within program of study parameters set forth in the general education core for the Associate in Applied Science Degree.

Area III: Natural Science, Mathematics, and Computer Science9-11 Credit Hours

- Must complete a minimum of 3 semester hours in Mathematics.
- Must complete one course in Computer Science (2 preferred) or demonstrated computer literacy skills, or the integration of computer proficiencies within a required discipline-specific course(s).

Appropriate 100 level (or higher) mathematics, natural science, and/or computer science courses as denoted in The Alabama Community College System Course Directory may be selected.

In addition to Mathematics and Computer Science, disciplines in the Natural Sciences include: Astronomy, Biological Sciences, Chemistry, Geology, Physical Geography, Earth Science, Physics, and Physical Science.

Health-related Disciplines

- Students enrolled as majors in health-related disciplines for which the AAS degree is awarded must take BIO 103 as the prerequisite for BIO 201, BIO 202, and BIO 220 or pass the validated system wide biology placement examination.

Area IV: History, Social, and Behavioral Sciences.....3-6 Credit Hours

In addition to History, the Social and Behavioral Sciences include: Anthropology, Economics, Geography, Political Science, Psychology, and Sociology.

Programs in which the AAS represents the Terminal Award are not required to complete the 6 semester hour sequence in Area IV.

Minimum General Education Requirements.....18-29 Credit Hours

Area V: Maximum General Education Core, Technical Concentration, and Electives47-58 Credit Hours

- *Courses appropriate to the degree requirements, occupational or technical specialty requirements, core courses, and electives. Students planning programs of study for which the AAS does not represent the terminal degree, and for which national or regional programmatic licensure and certification are required, should be encouraged to integrate the General Studies transfer courses whenever possible.*

Maximum Program Semester Credit Hours76 Credit Hours

Semester Credit Hour Range by Award60-76 Credit Hours

Associate in Applied Science Degree Business Management and Supervision

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 100 Intermediate College Algebra or higher	3 hours
CIS 146 Microcomputer Applications	3 hours
Math, Science, or CIS Elective	3-4 hours
Total.....	9-10 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
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 Legal and Social Environment of Business.....	3 hours
BUS 275 Principles of Management.....	3 hours
ECO 231 Macroeconomics.....	3 hours
ECO 232 Microeconomics.....	3 hours
WKO 106 Workplace Skills.....	3 hours
Technical Core.....	21 hours

Electives (by advisement - a total of 8 courses)

BUS Electives (Select 6-7 BUS courses).....	18-21 hours
MTH or CIS Electives (Select 1-2 MTH or CIS courses).....	3-6 hours
Total Electives.....	24 hours
Total Area V.....	45 hours
Total Hours Required for Degree.....	66-68 hours

**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

MTH 100 Intermediate College Algebra or higher (no MTH 110 or 116).....	3 hours
CIS 146 Microcomputer Applications.....	3 hours
Math, Science or CIS Elective.....	3-4 hours
Total.....	9-10 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100, 101; 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 150 Introduction to Computer Programming and Logic.....	3 hours
CIS 268 Software Support.....	3 hours
CIS 269 Hardware Support.....	3 hours
CIS 199 Network Communications.....	3 hours
CIS 149 Introduction to Computers.....	3 hours
WKO 106 Workplace Skills.....	3 hours
Technical Core.....	18 hours
CIS Electives (Choose 5-6 CIS courses including at least 1 programming class).....	15-18 hours
MTH 112 or higher (no MTH 110 or 116).....	3 hours
Business Electives (Choose 1-2 BUS courses).....	3-6 hours
Total Area V Electives (Total 8 courses).....	24 hours
Total.....	42 hours
Total Hours for Degree.....	63-64 hours

**Associate in Applied Science Degree
Child Development**

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 100 Intermediate College Algebra or numerically higher.....	3 hours
CIS 146 Microcomputer Applications.....	3 hours
Math, Science or CIS Elective.....	3-4 hours
Total.....	9-10 hours

Area IV – History, Social, and Behavioral Sciences

PSY 200 or SOC 200 General Psychology or Introduction to Sociology.....	3 hours
Total.....	3 hours

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	
EMS 100 Cardiopulmonary Resuscitation I.....	1 hour
WKO 106 Workplace Skills.....	3 hours
Total.....	44-45 hours
Total Hours for Degree.....	65-67 hours

**Associate in Applied Science Degree
Criminal Justice**

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
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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 100 Intermediate College Algebra or higher 3 hours
 CIS 146 Microcomputer Applications 3 hours
 Math, Science, or CIS Elective 3 hours
Total..... 9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective 3 hours
 Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201,
 202; POL 211; PSY 200, 210; SOC 200, 210
Total..... 3 hours
Total Areas I-IV..... 21 hours

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
Total Technical Requirements..... 42 hours
Total Hours Required for Degree 63 hours

**Associate in Applied Science Degree
 Drafting and Design Technology**

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 116 3 hours
 or other 100 level Math
 Math, Science, or Computer Science 3 hours
Total..... 9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective 3 hours
 Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201,
 202; POL 211; PSY 200, 210; SOC 200, 210
Total..... 3 hours
Total Areas I-IV..... 21 hours

Area V

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 Innovations 3 hours
 DDT 104 Basic Computer-Aided Drafting & Design 3 hours
 DDT 117 Manufacturing Processes 3 hours
 DDT 124 Intro to Technical Drawing 3 hours
 DDT 225 Structural Steel Drafting 3 hours
 DDT 144 Basic 3D Modeling 3 hours
 DDT 220 or DDT 225 3 hours
 DDT 236 Design Project..... 3 hours
 MTT 218 Computer Integrated Manufacturing (CIM)..... 3 hours
 WKO 106 Workplace Skills 3 hours
 WKO 110 NCCER Core 3 hours
 3D Elective Sequence 6 hours
 MDT 147 and MDT 187 (Inventor) or MDT 202
 and MDT 252 (Solid Works)
Total Area V..... 48 hours
Total Hours Required for the Degree..... 69 hours

**Associate in Applied Science Degree
 Emergency Medical Services**

The Emergency Medical Services Program is accredited by 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
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 100 Level course or higher 3 hours
Total..... 11 hours

Area IV – History, Social and Behavioral Sciences

Area IV Elective..... 3 hours
 Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201,
 202; POL 211; PSY 200, 210; SOC 200, 210
Total..... 3 hours
Total Areas I-IV..... 23 hours

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

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 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
Total Area V	43 hours
Total Hours Required for Degree	66 hours

Associate in Applied Science Degree Engineering Technology

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 112 PreCalculus Algebra.....	3 hours
CIS 146 Microcomputer Applications	3 hours
PHS 121 Applied Physical Science.....	4 hours
Total.....	10 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
Total.....	3 hours

Area V

Technical Core (all courses required)

EGR 101 Engineering Foundations	3 hours
ENT 106 Principles of Engineering Tech	3 hours
INT 119 Principles of Mechanical Measurement and Technical Drawing	3 hours
MTH 113 PreCalculus Trigonometry	3 hours
ILT 160 DC Fundamentals.....	3 hours
ILT 161 AC Fundamentals.....	3 hours
WKO 110 NCCER Core	3 hours
WKO 106 Workplace Skills.....	3 hours
ENT 140 Applied Statics.....	3 hours
ENT 242 Advanced Studies in Engineering Tech.....	3 hours
ENT 108 Technical Writing	1 hour
ENT 221 Quality and Productivity	3 hours
ENT 243 ENT Co-op.....	3 hours

DDT Sequence (select general drafting or 3D)

DDT 104 and 111 or DDT 144 and 233.....	6 hours
Total.....	42 hours

Options – Choose 1:

Electrical/Mechanical Option Electives.....	12 hours
Industrial Option Electives	12 hours

Total Area V.....	54 hours
Total Hours Required for the AAS Degree	76 hours

Associate in Applied Science Degree Industrial Electronics Technology

The Industrial Electronics Program is approved by the Electronics Technicians Association — International (ETA-I).

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
Arts and Humanities 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 100 Intermediate College Algebra or higher.....	3 hours
CIS 146 Microcomputer Applications	3 hours
Math, Science, or Computer Science Elective.....	3 hours
Total.....	9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201, 202; POL 211; PSY 200, 210; SOC 200, 210	
Total.....	3 hours

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 192 Co-op in ILT	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 NCCER Core	3 hours
ILT Electives (by advisement)	5 hours
Total Area V.....	49 hours
Total Hours Required for Degree	70 hours

**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 Mathematical Applications or any 100-level 3 hours
Math, Science, or Computer Science Elective 3 hours
CIS 146 Microcomputer Applications 3 hours
Total..... 10 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective 3 hours
Total..... 3 hours

Area V

Technical Core – Required of all options

INT 117 Principles of Industrial Mechanics 3 hours
INT 192 Co-Op 3 hours
WKO 106 Workplace Skills 3 hours
WKO 110 NCCER Core 3 hours
Total..... 12 hours

ILT 108 Intro to Instruments & Process Control 3 hours
ILT 109 Electrical Blueprint Reading I 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
Total Area V..... 48 hours
Total Hours Required for the AAS Degree 69 hours

**Associate in Applied Science Degree
Industrial Systems Technology –
Multi-Skilled Maintenance Technician**

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
Total..... 6 hours

Area III – Natural Science and Mathematics

MTH 100 or higher 3 hours
Math, Science or CIS Elective 3 hours
CIS 146 3 hours
Total..... 9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective 3 hours
Choose from: ECO 231, 232; GEO 100, 101; HIS 101, 102, 201,
202; POL 211; PSY 200, 210; SOC 200, 210
Total..... 3 hours

Area V

Technical Core – Required of all options

INT 117 Principles of Industrial Mechanics 3 hours
INT 192 Co-Op 3 hours
WKO 106 Workplace Skills 3 hours
WKO 110 NCCER Core 3 hours
Total..... 12 hours

INT 118 Fundamentals of Industrial
Hydraulics and Pneumatics 3 hours
INT 119 Principles of Mechanical Measurement and
Technical Drawing 3 hours
INT 126 Preventative 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 231 NEC 3 hours
ILT 109 Electrical Blueprint Reading I 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
Total Area V..... 48 hours
Total Hours Required for the AAS Degree 69 hours

**Associate in Applied Science Degree
in Industrial Systems Technology –
Welding Option**

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 100 Intermediate College Algebra or higher.....	3 hours
Math, Science or CIS Elective.....	3 hours
CIS Elective.....	3 hours
Total.....	9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
Total.....	3 hours

Area V

Technical Core – Required of all options

INT 117 Principles of Industrial Mechanics.....	3 hours
INT 192 Industrial Maintenance Technology Co-op.....	3 hours
WKO 106 Workplace Skills.....	3 hours
WKO 110 NCCER Core.....	3 hours
Total.....	12 hours

INT 119 Principles of Mechanical Measurement and Technical Drawing.....	3 hours
WDT Electives (Any WDT courses).....	30 hours
Total Area V.....	48 hours
Total Hours Required for the AAS Degree.....	69 hours

**Associate in Applied Science Degree
in Industrial Systems Technology –
Machining Option**

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 100 Intermediate College Algebra or numerically higher.....	3 hours
Math, Science or CIS Elective.....	3 hours
CIS Elective.....	3 hours
Total.....	9 hours

Area IV – History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ART 100, 203, 204; MUS 101, PHL 206; REL 100, 151, 152; SPA 201, 202; THR 120, 126	
Total.....	3 hours

Area V

Technical Core – Required of all options

INT 117 Principles of Industrial Mechanics.....	3 hours
INT 192 Industrial Maintenance Technology Co-op.....	3 hours
WKO 106 Workplace Skills.....	3 hours

WKO 110 NCCER Core.....	3 hours
Total.....	12 hours

INT 119 Principles of Mechanical Measurement and Technical Drawing.....	3 hours
MTT Electives (Any MTT courses).....	30 hours
Total Area V.....	45 hours
Total Hours Required for the AAS Degree.....	66 hours

**Associate in Applied Science Degree
LPN Role Transition to
Associate Degree Nurse (RN)
Track I**

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 209* Concepts of Healthcare Transition Students.....	10 hours
*After successful completion of NUR 209, the student will be awarded 15 hours of non-traditional credit.....	15 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

**Associate In Applied Science Degree
Lpn Role Transition To
Associate Degree Nurse (RN)
Track Ii**

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, NUR 113, NUR 114, NUR 115	
LPN Advanced Placement Credit	25 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

**Associate in Applied Science Degree
Medical Assistant**

The Medical Assistant 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	3-4 hours
Choose from: ART 100, 203, 204; MUS 101; PHL 206;	
REL 100, 151, 152; SPA 201, 202; THR 120, 126	
Total	6-7 hours

Area III – Natural Science and Mathematics

MTH 116 Mathematical Applications or any 100-level	3 hours
BIO 103 Principles of Biology	4 hours
CIS 146 Microcomputer Applications	3 hours
Total	10 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 Medical Terminology or OAD 211	
Medical Terminology	3 hours

MAT 102 Medical Assisting Theory I

(Approved Substitute: BIO 201)	3 hours
MAT 103 Medical Assisting Theory II (Approved Substitute: BIO 202)	3 hours
MAT 111 Clinical Procedures I for the Medical Patient	3 hours
MAT 120 Medical Administrative Procedures I	3 hours
MAT 125 Laboratory Procedures I for the Medical Patient	3 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 Electives	13 hours
Choose from: MAT 121 (3 hours); MAT 128 (3 hours); MAT 200 (2 hours);	
MAT 218 (3 hours); MAT 220 (3 hours); *MAT 222 (2 hours) or OAD 212 (3 hours);	
MAT 228 (1 hour); MAT 239 (3 hours); HIT 230 (3 hours); HIT 232 (3 hours);	
HIT 116 (2 hours); HIT 283 (2 hours)	

EMS 100 CPR I	1 hour
WKO 106 Workplace Skills	3 hours
MAT 229 Medical Assisting Preceptorship	3 hours
Total Area V	48 hours
Total Hours Required for Degree	70-71 hours

* OAD 212 may be substituted for MAT 222.

**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

**Associate in Applied Science Degree
Office 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

CIS 146 Microcomputer Applications	3 hours
MTH 100 Intermediate College Algebra or higher.....	3 hours
Math, Science, or CIS Elective.....	3-4 hours
Total.....	9-10 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 Course

Core Courses:	21 hours
OAD 103 Intermediate Keyboarding.....	3 hours
OAD 125 Word Processing.....	3 hours
OAD 131 Business English	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
Transcription Elective	3-4 hours
Choose from: OAD 200, 202, or 212; MAT 222 & MAT 223; MAT 224	
OAD/MAT Electives.....	9-12 hours
Choose three or four classes that were not taken as Core Courses or as a Transcription Elective: OAD 101, 126, 200, 202, 218, 241; MAT 101; MAT 120; MAT 220; OAD 212	
CIS/BUS Elective	3-6 hours
ECO 231 or 232	3 hours
Total.....	42 hours
Total Hours Required for Degree	63-64

**Associate in Applied Science Degree
Office Administration
Medical Office Option**

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

CIS 146 Microcomputer Applications	3 hours
MTH 100 Intermediate College Algebra or higher.....	3 hours
Math, Science, or CIS Elective	3-4 hours
Total.....	9-10 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 Course

Core Courses:	18 hours
OAD 103 Intermediate Keyboarding.....	3 hours
OAD 125 Word Processing.....	3 hours
OAD 138 Records/Information Management.....	3 hours
BUS 215 Business Communications	3 hours
BUS 241 Principles of Accounting I.....	3 hours
WKO 106 Workplace Skills.....	3 hours
MAT 101* Medical Terminology.....	3 hours
OAD 212 Medical Transcription	3 hours
OAD/MAT Electives.....	12-15 hours
Choose from: MAT 120; MAT 220; MAT 121; MAT 128; OAD 241	
OAD Electives	0-3 hours
Choose from: OAD 101, 126, 131, 200, 202, 218, 231, 241	
ECO 231 or 232	3 hours
Total.....	42 hours
Total Hours Required for Degree	63-64

* EMS 106 Medical Terminology for the Health Professions (2 hours) with an additional hour(s) in an OAD or CIS elective or BIO 201 Human Anatomy and Physiology (4 hours) may be substituted for OAD 211.

**Associate in Applied Science Degree
Office Administration
Paralegal Option**

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

CIS 146 Microcomputer Applications	3 hours
MTH 100 Intermedicate College Algebra or numerically higher.....	3 hours
Math, Science, or CIS Elective	3-4 hours
Total.....	9-10 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 Course

Core Courses:	18 hours
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
PRL Electives.....	24 hours
Choose eight courses from the following options: PRL 101, 102, 103, 150, 160, 192, 210, 220, 230, 240, 262, 282, 291	
BUS 263 The Legal and Social Environment of Business	3 hours
OAD 202 Legal Transcription	3 hours
Total.....	48 hours
Total Hours Required for Degree	69-70.

**Associate in Applied Science Degree
Salon and Spa Management**

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	
Total.....	6 hours

Area III – Natural Science and Mathematics

MTH 116 Mathematical Applications.....	3 hours
CIS 146 Microcomputer Applications	3 hours
Math, Science or CIS Elective	3 hours
Total.....	9 hours

Area IV - History, Social, and Behavioral Sciences

Area IV Elective.....	3 hours
Choose from: ECO 231, 232; GEO 100, 101; 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

WKO 106 Workplace Skills.....	3 hours
SAL 201 Entrepreneurship for the Salon/Spa.....	3 hours
SAL 133 Salon/Spa Management	3 hours
Technical Core Requirements.....	9 hours

Program Options (Select One)

Cosmetology

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
Total.....	36 hours

Therapeutic Massage

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 hours
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 National Certification Exam Review.....	1 hours
EMS 103 First Aid/CPR.....	1 hours
Elective	7 hours
Choose from: BUS, COS, HED, SAL, or CIS	
Total.....	36 hours

Esthetics

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 169 Skin Functions.....	3 hours
COS 190 Internship in Cosmetology	3 hours
COS 191 Co-Op in Cosmetology	3 hours
Total.....	36 hours
Total Hours Required for Degree	66 hours