

ASSOCIATE IN SCIENCE

Program Description

The School of Arts & Sciences offers the Associate in Arts and Associate in Science degrees as well as the general education courses required for the Associate in Applied Science degree programs. It provides opportunities for undergraduate research, and study abroad/international education.

Embedded Certificate

This program contains one or more embedded certificates which will automatically be awarded if the certificate requirements are met unless the student completes and submits the **Program of Study Change Form** requesting to opt out of the embedded certificate.

Mission Statement

The School of Arts & Sciences provides an interdisciplinary educational experience with broad-based degree options, general education courses, opportunities for undergraduate research and global education.

Entrance Requirements

High school diploma or equivalent.

Type of Program

Day, night, weekend, online

Type of Degree

Associate degree

Total Hours Required for Program

60 semester hours

Related Areas

Agriculture, biology, biotechnology, chemistry, dentistry, engineering, forestry, mathematics, medicine and nursing, pharmacy, physics, textiles and veterinary medicine.

*Students may one be awarded **ONE** degree in Associate of Science regardless of the various related areas/tracks.*

Transfer Requirements

Students planning to transfer and pursue a bachelor's degree are strongly urged to utilize Greenville Technical College's academic advising services. The transfer process for transfer tracks is very specific and leaves little opportunity for error in choosing classes. It is very important that students discuss curriculum and transfer requirements with their assigned academic advisor and with a transfer advisor at the four-year institution of their choice. It is most beneficial to the student if these discussions begin as soon as the choice to transfer to a four-year institution has been made.

Greenville Technical College has an Engineering Transfer Articulation Agreement with Clemson University. Students planning to pursue a bachelor's degree in engineering must complete an "Intent to Participate" form before completing thirty (30) credit hours. Students must contact their academic advisor to complete the form.

Visit our web page at <https://www.gvltec.edu/arts-sciences/>.

Requirements and Course Options Associate in Science

| Course | Title | Hours |
|--|-------|-----------|
| Freshman Seminar | | 3 |
| Communications and Literature | | 12 |
| Humanities/Social Science Electives ¹ | | 9 |
| Mathematics/Sciences ² | | 23 |
| Other Elective Hours | | 13 |
| Total Required Credit Hours | | 60 |

¹ A minimum of one social science course required.

² A minimum of one math and one lab science course is required.

Freshman Seminar

| Course | Title | Hours |
|---------|------------------|-------|
| COL 105 | Freshman Seminar | 3 |

Communications and Literature

| Course | Title | Hours |
|-----------------------|-----------------------------|-------|
| Communications | | |
| ENG 101 | English Composition I* | 3 |
| ENG 102 | English Composition II* | 3 |
| SPC 205 | Public Speaking* | 3 |
| SPC 208 | Intercultural Communication | 3 |
| SPC 209 | Interpersonal Communication | 3 |
| Literature | | |
| ENG 201 | American Literature I* | 3 |
| ENG 202 | American Literature II* | 3 |
| ENG 205 | English Literature I* | 3 |
| ENG 206 | English Literature II* | 3 |
| ENG 207 | Literature for Children | 3 |
| ENG 208 | World Literature I* | 3 |
| ENG 209 | World Literature II* | 3 |
| ENG 213 | Short Fiction | 3 |
| ENG 215 | Young Adult Literature | 3 |
| ENG 225 | Graphic Literature | 3 |
| ENG 228 | Studies in Film Genre | 3 |
| ENG 230 | Women in Literature* | 3 |

Humanities/Social Science Electives

| Course | Title | Hours |
|---|-------------------------------|-------|
| A minimum of one social science course is required. | | |
| Humanities | | |
| ART 101 | Art History and Appreciation* | 3 |
| ART 105 | Film as Art* | 3 |
| ART 106 | History of Photography | 3 |
| ART 107 | History of Early Western Art | 3 |
| ART 108 | History of Western Art | 3 |
| ART 208 | Art Since 1945 | 3 |
| ART 210 | History of Graphic Design | 3 |

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|------------------------|--------------------------------------|---|---|--|--------------|
| ENG 201 | American Literature I* | 3 | PSC 205 | Politics and Government | 3 |
| ENG 202 | American Literature II* | 3 | PSC 215 | State and Local Government* | 3 |
| ENG 205 | English Literature I* | 3 | PSC 220 | Introduction to International Relations | 3 |
| ENG 206 | English Literature II* | 3 | PSY 201 | General Psychology* | 3 |
| ENG 207 | Literature for Children | 3 | PSY 203 | Human Growth and Development* | 3 |
| ENG 208 | World Literature I* | 3 | PSY 206 | Health Psychology | 3 |
| ENG 209 | World Literature II* | 3 | PSY 208 | Human Sexuality* | 3 |
| ENG 213 | Short Fiction | 3 | PSY 212 | Abnormal Psychology* | 3 |
| ENG 225 | Graphic Literature | 3 | PSY 225 | Social Psychology | 3 |
| ENG 228 | Studies in Film Genre | 3 | SOC 101 | Introduction to Sociology* | 3 |
| ENG 230 | Women in Literature* | 3 | SOC 205 | Social Problems* | 3 |
| ENG 238 | Creative Writing | 3 | SOC 225 | Gender Issues | 3 |
| FRE 101 | Elementary French I* | 4 | AS Concentration Courses - Mathematics/Sciences | | |
| FRE 102 | Elementary French II* | 4 | Course | Title | Hours |
| FRE 201 | Intermediate French I* | 3 | A minimum of one math and one lab science course is required. | | |
| FRE 202 | Intermediate French II* | 3 | AST 101 | Solar System Astronomy* | 4 |
| GER 101 | Elementary German I* | 4 | AST 102 | Stellar Astronomy* | 4 |
| GER 102 | Elementary German II* | 4 | BIO 101 | Biological Science I* | 4 |
| GER 201 | Intermediate German I | 3 | BIO 102 | Biological Science II* | 4 |
| GER 202 | Intermediate German II | 3 | BIO 105 | Principles of Biology (non-majors biology) | 4 |
| HIS 101 | Western Civilization to 1689* | 3 | BIO 203 | General Genetics | 4 |
| HIS 102 | Western Civilization Post 1689* | 3 | BIO 209 | Principles of Environmental Science | 4 |
| HIS 104 | World History I | 3 | BIO 210 | Anatomy & Physiology I* | 4 |
| HIS 105 | World History II | 3 | BIO 211 | Anatomy & Physiology II* | 4 |
| HIS 106 | Introduction to African History | 3 | BIO 215 | Anatomy | 4 |
| HIS 115 | African-American History | 3 | BIO 216 | Physiology | 4 |
| HIS 122 | History, Technology and Society | 3 | BIO 225 | Microbiology* | 4 |
| HIS 201 | American History: Discovery to 1877* | 3 | BIO 240 | Nutrition | 3 |
| HIS 202 | American History: 1877 to Present* | 3 | BIO 241 | Clinical Nutrition | 3 |
| HSS 295 | Leadership Through the Humanities | 3 | BIO 250 | Molecular Biology | 3 |
| MUS 105 | Music Appreciation* | 3 | BIO 260 | Immunology | 3 |
| MUS 110 | Music Fundamentals | 3 | BIO 275 | Human Pathophysiology | 3 |
| PHI 101 | Introduction to Philosophy* | 3 | CHM 105 | General Organic & Biochemistry | 4 |
| PHI 105 | Introduction to Logic* | 3 | CHM 110 | College Chemistry I* | 4 |
| PHI 110 | Ethics* | 3 | CHM 111 | College Chemistry II* | 4 |
| REL 101 | Introduction to Religion | 3 | CHM 211 | Organic Chemistry I* | 4 |
| REL 102 | Introduction to Biblical Studies | 3 | CHM 212 | Organic Chemistry II* | 4 |
| REL 201 | Religions of the World | 3 | CHM 213 | Principles of Biochemistry | 3 |
| SPA 101 | Elementary Spanish I* | 4 | GLY 101 | Physical Geology | 4 |
| SPA 102 | Elementary Spanish II* | 4 | MAT 103 | Quantitative Reasoning | 3 |
| SPA 201 | Intermediate Spanish I* | 3 | MAT 109 | College Algebra with Modeling | 3 |
| SPA 202 | Intermediate Spanish II* | 3 | MAT 110 | College Algebra* | 3 |
| THE 101 | Introduction to Theatre* | 3 | MAT 111 | College Trigonometry* | 3 |
| THE 105 | Fundamentals of Acting | 3 | MAT 120 | Probability and Statistics* | 3 |
| Social Sciences | | | MAT 130 | Elementary Calculus* | 3 |
| ANT 101 | General Anthropology* | 3 | MAT 140 | Analytical Geometry and Calculus I* | 4 |
| ANT 202 | Cultural Anthropology | 3 | MAT 141 | Analytical Geometry and Calculus II* | 4 |
| ECO 210 | Macroeconomics* | 3 | MAT 211 | Math for Elementary Education I | 3 |
| ECO 211 | Microeconomics* | 3 | MAT 212 | Math for Elementary Education II | 3 |
| GEO 101 | Introduction to Geography* | 3 | MAT 215 | Geometry | 3 |
| GEO 102 | World Geography* | 3 | MAT 220 | Advanced Statistics | 3 |
| PSC 201 | American Government* | 3 | | | |

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|---------|-------------------------------------|---|---------|--|---|
| MAT 230 | Basic Multivariable Calculus | 3 | BIO 102 | Biological Science II* | 4 |
| MAT 240 | Analytical Geometry & Calculus III* | 4 | BIO 105 | Principles of Biology (non-majors biology) | 4 |
| MAT 242 | Differential Equations* | 4 | BIO 203 | General Genetics | 4 |
| PHS 101 | Physical Science I | 4 | BIO 209 | Principles of Environmental Science | 4 |
| PHY 201 | Physics I* | 4 | BIO 210 | Anatomy & Physiology I* | 4 |
| PHY 202 | Physics II* | 4 | BIO 211 | Anatomy & Physiology II* | 4 |
| PHY 221 | University Physics I* | 4 | BIO 215 | Anatomy | 4 |
| PHY 222 | University Physics II* | 4 | BIO 216 | Physiology | 4 |

AS Transfer Hours

| Course | Title | Hours | Course | Title | Hours |
|---------|--|-------|---------|---|-------|
| ACC 101 | Accounting Principles I* | 3 | BIO 225 | Microbiology* | 4 |
| ACC 102 | Accounting Principles II* | 3 | BIO 240 | Nutrition | 3 |
| AET 103 | International Building and Residential Codes | 3 | BIO 241 | Clinical Nutrition | 3 |
| AET 122 | Basic Design Theory | 3 | BIO 250 | Molecular Biology | 3 |
| AET 201 | Building Systems II | 3 | BIO 260 | Immunology | 3 |
| AET 225 | Architectural Design Senior Project | 4 | BIO 275 | Human Pathophysiology | 3 |
| AHS 102 | Medical Terminology | 3 | BIO 299 | Research in the Biological Sciences | 3 |
| AHS 147 | Clinical Pharmacology | 3 | BUS 121 | Business Law I | 3 |
| ANT 101 | General Anthropology* | 3 | CET 103 | Construction Surveying | 2 |
| ANT 202 | Cultural Anthropology | 3 | CET 120 | Construction Materials | 3 |
| ART 101 | Art History and Appreciation* | 3 | CHM 105 | General Organic & Biochemistry | 4 |
| ART 105 | Film as Art* | 3 | CHM 110 | College Chemistry I* | 4 |
| ART 106 | History of Photography | 3 | CHM 111 | College Chemistry II* | 4 |
| ART 107 | History of Early Western Art | 3 | CHM 211 | Organic Chemistry I* | 4 |
| ART 108 | History of Western Art | 3 | CHM 212 | Organic Chemistry II* | 4 |
| ART 111 | Basic Drawing I | 3 | CHM 213 | Principles of Biochemistry | 3 |
| ART 112 | Basic Drawing II | 3 | CHM 299 | Research in Chemistry | 3 |
| ART 200 | Type Designing | 3 | COL 111 | E-Learning Success | 1 |
| ART 202 | Ceramics | 3 | CPT 170 | Computer Applications I | 3 |
| ART 207 | Printmaking | 3 | CPT 209 | Computer Systems Management | 3 |
| ART 208 | Art Since 1945 | 3 | CPT 257 | Operating Systems | 3 |
| ART 210 | History of Graphic Design | 3 | CRJ 101 | Introduction to Criminal Justice | 3 |
| ART 211 | Introduction to Painting | 3 | CRJ 115 | Criminal Law I | 3 |
| ART 268 | Seminar in Fine Arts | 3 | CRJ 125 | Criminology | 3 |
| ART 290 | Photojournalism | 3 | ECD 107 | Exceptional Children | 3 |
| ARV 110 | Computer Graphics I | 3 | ECE 211 | Introduction to Computer Engineering I | 3 |
| ARV 114 | Photography I | 3 | ECE 212 | Introduction to Computer Engineering II | 3 |
| ARV 121 | Design | 3 | ECE 221 | Introduction to Electrical Engineering I | 3 |
| ARV 122 | 3-Dimensional Design I | 3 | ECE 222 | Introduction to Electrical Engineering II | 3 |
| ARV 205 | Graphic Illustration | 3 | ECO 210 | Macroeconomics* | 3 |
| ARV 210 | Computer Graphics II | 3 | ECO 211 | Microeconomics* | 3 |
| ARV 212 | Digital Photography | 3 | EDU 230 | Schools in Communities | 4 |
| ARV 214 | Photography II | 3 | EDU 245 | Principles of American Education | 3 |
| ARV 217 | Computer Imagery | 3 | EGR 206 | Introduction to Materials Science | 3 |
| ARV 227 | Web Site Design I | 3 | EGR 260 | Engineering Statics | 3 |
| ARV 230 | Visual Arts Business Procedures | 3 | EGR 262 | Engineering Dynamics | 3 |
| ARV 241 | Painting II | 3 | EGR 269 | Engineering Disciplines and Skills | 3 |
| ARV 244 | Sculpture I | 3 | EGR 270 | Introduction to Engineering | 3 |
| AST 101 | Solar System Astronomy* | 4 | EGR 275 | Introduction to Engineering/Computer Graphics | 3 |
| AST 102 | Stellar Astronomy* | 4 | ENG 165 | Professional Communications | 3 |
| BIO 101 | Biological Science I* | 4 | ENG 201 | American Literature I* | 3 |
| | | | ENG 202 | American Literature II* | 3 |
| | | | ENG 205 | English Literature I* | 3 |
| | | | ENG 206 | English Literature II* | 3 |

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|---------|--|---|---------|---|---|
| ENG 207 | Literature for Children | 3 | MAT 215 | Geometry | 3 |
| ENG 208 | World Literature I* | 3 | MAT 220 | Advanced Statistics | 3 |
| ENG 209 | World Literature II* | 3 | MAT 230 | Basic Multivariable Calculus | 3 |
| ENG 213 | Short Fiction | 3 | MAT 240 | Analytical Geometry & Calculus III* | 4 |
| ENG 225 | Graphic Literature | 3 | MAT 242 | Differential Equations* | 4 |
| ENG 228 | Studies in Film Genre | 3 | MGT 101 | Principles of Management | 3 |
| ENG 230 | Women in Literature* | 3 | MKT 101 | Marketing | 3 |
| ENG 238 | Creative Writing | 3 | MUS 105 | Music Appreciation* | 3 |
| ENG 298 | Research in English | 3 | MUS 110 | Music Fundamentals | 3 |
| FRE 101 | Elementary French I* | 4 | PHI 101 | Introduction to Philosophy* | 3 |
| FRE 102 | Elementary French II* | 4 | PHI 105 | Introduction to Logic* | 3 |
| FRE 201 | Intermediate French I* | 3 | PHI 110 | Ethics* | 3 |
| FRE 202 | Intermediate French II* | 3 | PHS 101 | Physical Science I | 4 |
| GEO 101 | Introduction to Geography* | 3 | PHY 201 | Physics I* | 4 |
| GEO 102 | World Geography* | 3 | PHY 202 | Physics II* | 4 |
| GER 101 | Elementary German I* | 4 | PHY 221 | University Physics I* | 4 |
| GER 102 | Elementary German II* | 4 | PHY 222 | University Physics II* | 4 |
| GER 201 | Intermediate German I | 3 | PSC 201 | American Government* | 3 |
| GER 202 | Intermediate German II | 3 | PSC 205 | Politics and Government | 3 |
| GLY 101 | Physical Geology | 4 | PSC 215 | State and Local Government* | 3 |
| HIM 266 | Computers in Health Care | 3 | PSC 220 | Introduction to International Relations | 3 |
| HIS 101 | Western Civilization to 1689* | 3 | PSY 201 | General Psychology* | 3 |
| HIS 102 | Western Civilization Post 1689* | 3 | PSY 203 | Human Growth and Development* | 3 |
| HIS 104 | World History I | 3 | PSY 206 | Health Psychology | 3 |
| HIS 105 | World History II | 3 | PSY 208 | Human Sexuality* | 3 |
| HIS 106 | Introduction to African History | 3 | PSY 212 | Abnormal Psychology* | 3 |
| HIS 115 | African-American History | 3 | PSY 225 | Social Psychology | 3 |
| HIS 122 | History, Technology and Society | 3 | PSY 299 | Research in Psychology | 3 |
| HIS 201 | American History: Discovery to 1877* | 3 | REL 101 | Introduction to Religion | 3 |
| HIS 202 | American History: 1877 to Present* | 3 | REL 102 | Introduction to Biblical Studies | 3 |
| HSS 298 | Research in the Humanities | 3 | REL 201 | Religions of the World | 3 |
| HUS 101 | Introduction to Human Services | 3 | SOC 101 | Introduction to Sociology* | 3 |
| HUS 102 | Personal and Professional Development in Helping Professions | 3 | SOC 205 | Social Problems* | 3 |
| IST 220 | Data Communications | 3 | SOC 225 | Gender Issues | 3 |
| LEG 120 | Torts | 3 | SOC 299 | Research in Sociology | 3 |
| LEG 121 | Business Law I | 3 | SPA 101 | Elementary Spanish I* | 4 |
| LEG 135 | Introduction to Law and Ethics | 3 | SPA 102 | Elementary Spanish II* | 4 |
| LOG 215 | Supply Chain Management | 3 | SPA 201 | Intermediate Spanish I* | 3 |
| LOG 250 | Advanced Global Logistics | 3 | SPA 202 | Intermediate Spanish II* | 3 |
| MAT 103 | Quantitative Reasoning | 3 | SPC 205 | Public Speaking* | 3 |
| MAT 109 | College Algebra with Modeling | 3 | SPC 208 | Intercultural Communication | 3 |
| MAT 110 | College Algebra* | 3 | SPC 209 | Interpersonal Communication | 3 |
| MAT 111 | College Trigonometry* | 3 | THE 101 | Introduction to Theatre* | 3 |
| MAT 120 | Probability and Statistics* | 3 | THE 105 | Fundamentals of Acting | 3 |
| MAT 130 | Elementary Calculus* | 3 | THE 205 | Intermediate Acting | 3 |
| MAT 140 | Analytical Geometry and Calculus I* | 4 | THE 220 | Theatre Laboratory I | 1 |
| MAT 141 | Analytical Geometry and Calculus II* | 4 | THE 221 | Theatre Laboratory II | 1 |
| MAT 155 | Contemporary Mathematics | 3 | THE 222 | Theatre Laboratory III | 1 |
| MAT 170 | Algebra, Geometry and Trigonometry I | 3 | THE 226 | Children's Theatre | 3 |
| MAT 211 | Math for Elementary Education I | 3 | THE 250 | Makeup for Performance | 3 |
| MAT 212 | Math for Elementary Education II | 3 | THE 253 | Stagecraft | 3 |

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| THE 276 | Script Analysis | 3 |
| THE 290 | Voice and Diction for the Stage | 3 |