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Web Development - AAS

Degree Pathway

An Associates of Applied Science Degree emphasizes preparation in the applied arts and sciences for careers, typically at the technical or semi-professional level. This degree totals 64 credits. Consult with an advisor for more information.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

| Required Courses | | | |
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| Course ID | Course Title | Credit Hours | Notes |
| BU120 | Job Search/Retention | 1.00 | Fall, Spring, Summer |
| CS111 | Visual Basic Programming | 3.00 | Fall, Spring |
| CS200 | Problem Solving and Programming | 4.00 | Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming. |
| CS203 | Discrete Structures | 3.00 | Spring Prereq: MA106 College Algebra with a grade of C or higher. |
| CS206 | Data Structures and Algorithms | 3.00 | Fall Prereq: CS200 Problem Solving and Programming. |
| IS135 | Essentials of Web Interaction | 2.00 | Fall, Spring, Summer |
| IS137 | Website Ethics and Security | 3.00 | Fall, Spring |
| IS148 | CompTIA A+ Core 1 | 3.00 | Fall, Spring |
| IS215 | Web Development Platform | 3.00 | Fall, Spring Prereq: IS228 Data Base Structures, or Departmental Consent. |
| IS225 | Website Coding | 2.00 | Fall, Spring Prereq: IS135 Essentials of Web Interaction, or Departmental Consent. |
| IS228 | Database Structures | 3.00 | Fall, Spring |
| IS235 | Elements of Linux | 3.00 | Fall, Spring |
| IS256 | Web Development Special Projects | 1.00 | Spring Prereq: IS228 Data Base Structures. |
| IS264 | JavaScript | 3.00 | Fall Prereq: IS225 Website Coding. |
| Electives | | | |
| Course ID | Course Title | Credit Hours | Notes |
| General Education Options | | 15.00 | |
| AR101 | Art Appreciation (T) | 3.00 | Fall, Spring, Summer |
| AR104 | Art History: Paleolithic to Medieval (T) | 3.00 | Fall |
| AR105 | Art History: Renaissance to Modern (T) | 3.00 | Spring |
| AR106 | Art in the Elementary Classroom (T) | 3.00 | Fall, Spring |
| AR110 | Drawing I (T) | 3.00 | Fall |
| BI100 | Basic Concepts for Allied Health Studies | 1.00 | Fall, Spring, Summer |
| BI101 | General Biology (T) | 4.00 | Fall, Spring, Summer |
| BI102 | Ecology of Environmental Problems (T) | 3.00 | Spring |
| BI103 | Human Anatomy and Physiology (T) | 6.00 | Fall, Spring, Summer Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C. |

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| BI104 | Biology I ▶ | 5.00 | Fall, Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher. |
| BI105 | Biology II ▶ | 5.00 | Spring Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I. |
| BI112 | General Microbiology ▶ | 4.00 | Fall, Spring, Summer Prereq: (BI101,BI103,BI104,BI105)BI107 is not a valid prereq code. |
| BI115 | Basic Radiation Biology | 2.00 | Spring Prereq: BI103 Human A&P. |
| BU105 | Introduction to Business ▶ | 3.00 | Fall, Spring, Summer |
| BU107 | Personal Finance ▶ | 3.00 | Fall, Spring, Summer |
| BU108 | Business Mathematics | 3.00 | Fall, Spring, Summer |
| BU109 | Business Communications ▶ | 3.00 | Fall, Spring, Summer |
| BU118 | Introduction to Leadership ▶ | 3.00 | Fall, Spring |
| CH101 | General Chemistry ▶ | 5.00 | Fall, Spring, Summer |
| CH105 | Chemistry I ▶ | 5.00 | Fall, Spring Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+. |
| CH106 | Chemistry II ▶ | 5.00 | Spring Prereq: CH105 Chemistry I with a C or Higher. |
| CH108 | Principles of Organic and Biochemistry ▶ | 5.00 | Fall Prereq: CH105 Chemistry I, or Departmental Consent. |
| CH201 | Organic Chemistry I | 5.00 | Fall Prereq: CH106 Chemistry II. |
| CH202 | Organic Chemistry II | 5.00 | Spring Prereq: CH201 Organic Chemistry I. |
| EC100 | Macroeconomics ▶ | 3.00 | Fall, Spring, Summer |
| EC101 | Microeconomics ▶ | 3.00 | Fall, Spring, Summer |
| ED105 | Success Seminar/College Orientation | 1.00 | Fall, Spring, Summer |
| ED201 | Introduction to Education ▶ | 3.00 | Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| ED201L | Introduction to Education Practicum ▶ | 1.00 | Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology. |
| EN100 | English Composition IB ▶ | 3.00 | Fall, Spring, Summer Prereq: EN098 Intro to College Writing with a grade of C or higher, or Accuplacer Next Generation Writing Score of 240 to 254, or HS GPA over 2.25, or ACT English Score of 17 to 19. |
| EN101 | English Composition IA ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.0, or Accuplacer NG Writing Score of 255 or Above, or ACT English Score of 20 or above. |
| EN102 | English Composition II ▶ | 3.00 | Fall, Spring, Summer Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN107 | Business English Grammar | 3.00 | Fall, Spring |
| EN108 | Career and Technical Writing | 3.00 | Fall, Spring |
| EN120 | Children's Literature ▶ | 3.00 | Fall, Spring |
| EN121 | World Mythology | 3.00 | Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN122 | Science Fiction Literature | 3.00 | Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher. |
| EN128 | Introduction to Creative Writing ▶ | 3.00 | Fall, Spring |
| EN201 | Introduction to Literature ▶ | 3.00 | Fall, Spring, Summer Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher. |
| EN202 | British Literature I | 3.00 | Fall Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN203 | British Literature II | 3.00 | Spring |

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| | | | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN204 | American Literature I ▶ | 3.00 | Fall Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN205 | American Literature II ▶ | 3.00 | Spring Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN206 | Contemporary Literature | 3.00 | Prereq: EN101/G=C,EN100/G=C,EN103/G=C is not a valid prereq code. |
| EN207 | Introduction to Shakespeare | 3.00 | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN214 | Introduction to Cultural Studies: Fairy Tales | 3.00 | Fall Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN215 | Medieval Literature in Contemporary Society | 3.00 | Prereq: EN100 or EN101 or EN103 with a grade of C or higher. |
| EN216 | Vampires in Literature and Film | 3.00 | Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher. |
| EN220 | Poetry Writing | 3.00 | Prereq: EN128 Introduction to Creative Writing. |
| GE101 | World Geography ▶ | 3.00 | Fall, Spring, Summer |
| GO100 | American Government ▶ | 3.00 | Fall, Spring, Summer |
| GO101 | State and Local Government ▶ | 3.00 | Fall |
| GO102 | International Relations ▶ | 3.00 | Spring |
| GO110 | Introduction to Political Science ▶ | 3.00 | Fall |
| GO110H | Honors Introduction to Political Science ▶ | 3.00 | Fall |
| HI101 | American History 1492-1865 ▶ | 3.00 | Fall, Spring, Summer |
| HI102 | American History 1865-Present ▶ | 3.00 | Fall, Spring, Summer |
| HI103 | World History to 1600 ▶ | 3.00 | Fall, Spring, Summer |
| HI104 | World History Since 1600 ▶ | 3.00 | Fall, Spring, Summer |
| HI122 | Film History of World War II | 3.00 | Spring |
| HI201 | Topics in History | 3.00 | Spring |
| IS103 | Microcomputer Literacy | 2.00 | Fall, Spring, Summer |
| IS104 | Microcomputer Applications ▶ | 3.00 | Fall, Spring, Summer |
| JL101 | Introduction to Mass Communications ▶ | 3.00 | Fall, Spring, Summer |
| LE101 | Introduction to Criminal Justice ▶ | 3.00 | Fall, Spring |
| ★ MA106 | College Algebra ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.5, or ACT Math Score of 21 or higher, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above. |
| MA107 | Plane Trigonometry ▶ | 3.00 | Fall, Spring, Summer Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36. |
| MA108 | Elements of Statistics ▶ | 3.00 | Fall, Spring, Summer Prereq: HS GPA over 3.5, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 21 or higher. |
| MA110 | Calculus ▶ | 3.00 | Fall, Spring, Summer Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA111 | Analytical Geometry and Calculus I ▶ | 5.00 | Fall, Spring, Summer Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA112H | Honors Analytical Geometry and Calculus I | 5.00 | Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher. |
| MA113 | Analytical Geometry and Calculus II | 5.00 | Fall, Spring, Summer Prereq: MA111 with a grade of C or higher. |
| MA114H | Honors Analytical Geometry and Calculus II | 5.00 | Prereq: MA111 or MA112H with a grade of C or better. |
| MA117 | Contemporary Math ▶ | 3.00 | Fall, Spring Prereq: HS GPA over 3.5, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 21 or higher. |
| MA201 | Analytical Geometry and Calculus III | 5.00 | Fall, Summer Prereq: MA113 with a grade of C or higher. |

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| MA202H | Honors Analytical Geometry and Calculus III | 5.00 | Prereq: MA113 or MA114H with a grade of C or better. |
| MA206 | Differential Equations | 3.00 | Fall, Spring Prereq: MA113 with a grade of C or higher. |
| MU101 | Music Appreciation ▶ | 3.00 | Fall, Spring, Summer |
| MU106 | Music Theory I ▶ | 3.00 | Fall |
| MU107 | Music Theory II ▶ | 3.00 | Spring Prereq: MU106 Music Theory I. |
| MU127 | Introduction To Jazz/Jazz Rock | 3.00 | Fall, Spring |
| MU206 | Music Theory III | 3.00 | Fall Prereq: MU107 Music Theory II. |
| MU207 | Music Theory IV | 3.00 | Spring Prereq: MU206 Music Theory III. |
| MU208 | History of Art Music of the Western World | 3.00 | |
| PE105 | Personal and Community Health ▶ | 3.00 | Fall, Spring, Summer |
| PE122 | Rhythms I | 2.00 | Fall |
| PE123 | Rhythms II | 2.00 | Spring |
| PE126 | Conditioning and Fitness Concepts I | 1.00 | Fall, Spring, Summer |
| PE127 | Conditioning and Fitness Concepts II | 1.00 | Fall, Spring, Summer Prereq: PE126 Conditioning & Fitness Concepts I. |
| PE145 | Golf | 1.00 | |
| PE151 | Social Dance-Beginning | 1.00 | |
| PE156 | Aerobic Dance | 1.00 | |
| PE173 | Fitness for Life | 1.00 | Fall, Spring, Summer |
| PE178 | Yoga I | 1.00 | |
| PL101 | Introduction to Philosophy ▶ | 3.00 | Fall, Spring, Summer |
| PL103 | Logic and Critical Thinking ▶ | 3.00 | Fall, Spring |
| PL104 | Ethics ▶ | 3.00 | Fall, Spring, Summer |
| PL105 | Death and Dying | 3.00 | Fall, Spring, Summer |
| PS100 | General Psychology ▶ | 3.00 | Fall, Spring, Summer |
| PS101 | Human Relations | 3.00 | Fall, Spring, Summer |
| PS102 | Human Growth and Development ▶ | 3.00 | Fall, Spring, Summer Prereq: PS100 General Psychology. |
| PS201 | Psychology of Personality | 3.00 | Fall, Spring Prereq: PS100 General Psychology with grade of C or higher. |
| PS202 | Abnormal Psychology | 3.00 | Fall, Spring, Summer Prereq: PS100 General Psychology. |
| PY101 | Descriptive Astronomy ▶ | 3.00 | |
| PY102 | Weather and Climate | 3.00 | Spring |
| PY103 | Physical Geology ▶ | 3.00 | Fall, Spring, Summer |
| PY104L | Physical Geology Lab ▶ | 1.00 | Fall, Spring, Summer |
| PY110 | Physical Science ▶ | 5.00 | Fall, Spring |
| PY112 | General Physics I ▶ | 5.00 | Fall, Spring Prereq: MA106 College Algebra or higher math. |
| PY113 | General Physics II ▶ | 5.00 | Spring Prereq: PY112 Gen Physics I. |
| PY201 | Engineering Physics I ▶ | 5.00 | Fall Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus. |
| PY202 | Engineering Physics II ▶ | 5.00 | Spring Prereq: PY201 Eng Phys I with grade of C or better. |
| RE101 | New Testament Literature ▶ | 3.00 | Spring |
| RE102 | Old Testament Literature ▶ | 3.00 | Fall |
| RE106 | Introduction to World Religions ▶ | 3.00 | Spring |

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| SH101 | Public Speaking ▸ | 3.00 | Fall, Spring, Summer |
| SH103 | Oral Interpretation | 3.00 | Spring |
| SH122 | Voice and Diction ▸ | 3.00 | |
| SH210 | Interpersonal Communication ▸ | 3.00 | Fall, Spring, Summer |
| SO100 | Fundamentals of Sociology ▸ | 3.00 | Fall, Spring, Summer |
| SO101 | Marriage and Family ▸ | 3.00 | Fall, Spring, Summer |
| SO103 | Stress Management | 1.00 | Fall, Spring, Summer |
| SO104 | Assertiveness Training | 2.00 | Fall, Spring, Summer |
| SO111 | Cultural Anthropology ▸ | 3.00 | Fall, Spring, Summer |
| SO113 | Cultural Diversity ▸ | 3.00 | Fall, Spring |
| SO122 | Introduction to Social Work ▸ | 3.00 | Fall |
| SO201 | Social Problems ▸ | 3.00 | Fall, Spring, Summer Prereq: SO100 Fundamentals of Sociology. |
| SP100 | Workplace Spanish | 2.00 | Fall |
| SP101 | Elementary Spanish I ▸ | 5.00 | Fall, Spring, Summer |
| SP102 | Elementary Spanish II ▸ | 5.00 | Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II. |
| TH115 | Theatre Appreciation ▸ | 3.00 | Fall, Spring |
| TH116 | Acting I ▸ | 3.00 | Fall |
| TH118 | Stagecraft ▸ | 3.00 | Fall |
| TH119 | Stage Makeup | 3.00 | Fall |
| TH121 | Acting II ▸ | 3.00 | Fall Prereq: TH116 Acting I with a grade of C or better. |
| TH122 | Voice and Diction ▸ | 3.00 | |
| TH123 | Theatre Practicum I ▸ | 1.00 | Fall, Spring |
| TR100 | Technical Math | 3.00 | Fall, Spring |
| TR120 | Work Ethics | 2.00 | Fall, Spring, Summer |
| IS182 Cisco CCNA I or IS212 Networking I | | 3.00 | |
| ★ IS182 | Cisco CCNA I/Networking I | 3.00 | Fall, Spring |
| IS250 Project Mgmt or IS210 Computer Support Internship | | 3.00 | |
| IS210 | Computer Internship I | 3.00 | Fall, Spring, Summer Prereq: Departmental Consent, and a GPA of 2.5 or higher, and IS149 CompTIA A+ Core 2. |
| IS250 | Project Management | 3.00 | Spring |
| Web Development Technical Electives | | 6.00 | |
| AR134 | Introduction to Digital Imagery--Photoshop | 3.00 | Fall |
| AR135 | Advanced Digital Imagery--Photoshop | 3.00 | Spring Prereq: AR134 Introduction to Digital Imagery, or JP118 Introduction to Digital Imagery. |
| CS121L | Programming Language Lab | 1.00 | Fall, Spring Prereq: CS111 Visual Basic Programming, or CS200 Problem Solving and Programming. |
| ED105 | Success Seminar/College Orientation | 1.00 | Fall, Spring, Summer |
| ED105H | Honors Success Seminar/College Orientation | 1.00 | Fall |
| IS100 | Cybersecurity Application | 3.00 | Fall, Spring |
| IS120 | Vector Graphics | 3.00 | Fall |
| IS149 | CompTIA A+ Core 2 | 3.00 | Fall, Spring Prereq: IS148 CompTIA A+ Core 1 with grade of C or better. |
| IS182 | Cisco CCNA I/Networking I | 3.00 | Fall, Spring |
| IS183 | Cisco CCNA II | 3.00 | Spring |

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| | | | Prereq: IS182 Cisco CCNA I/Networking I. |
| IS184 | Cisco CCNA III | 3.00 | Prereq: IS183 Cisco CCNA II. |
| IS201 | Database I | 1.00 | Fall, Spring, Summer |
| IS202 | Database II | 1.00 | Fall, Spring, Summer Prereq: IS201 Database I with a grade of C or better. |
| IS210 | Computer Internship I | 3.00 | Fall, Spring, Summer Prereq: Departmental Consent, and a GPA of 2.5 or higher, and IS149 CompTIA A+ Core 2. |
| IS211 | Computer Support Internship II | 3.00 | Fall, Spring, Summer Prereq: IS210 Computer Internship I. |
| IS224 | Networking II | 3.00 | Fall, Spring Prereq: IS182 Cisco CCNA I/Networking I. |
| IS237 | Server Operating Systems and Virtualization | 3.00 | Fall, Spring Prereq: IS148 CompTIA A+ Core 1 with grade of C or better, or Departmental Consent. |
| IS240 | Fundamentals of Network Security | 3.00 | Fall, Spring Prereq: IS182 Cisco CCNA I/Networking I & IS224 Networking II, or Departmental Consent, and IS184 Cisco CNA III, or IS183 Cisco CCNA II. |
| IS250 | Project Management | 3.00 | Spring |
| IS252 | Social Media Platform | 3.00 | Fall, Spring |
| IS280 | Computer Forensics | 3.00 | Spring Prereq: IS148 CompTIA A+ Core 1 with grade of C or better, and Departmental Consent, and IS212 Networking I. |
| IS281 | Control Systems Security | 3.00 | Spring Prereq: IS182 Cisco CCNA I/Networking I, and Departmental Consent, and IS212 Networking I. |
| IS282 | Secure Coding | 3.00 | Fall Prereq: CS200 Problem Solving and Programming, and Departmental Consent. |
| JP118 | Introduction to Digital Imagery--Photoshop | 3.00 | Fall, Spring |
| JP118H | Honors Introduction to Digital Imagery--Photoshop | 3.00 | |
| JP119 | Advanced Digital Imagery--Photoshop | 3.00 | Spring Prereq: AR134 Introduction to Digital Imagery, or JP118 Introduction to Digital Imagery. |

Total Credits: 64.00