

Web Development and Digital Media, AAS

The Web Development and Digital Media 64-credit hour Associate of Applied Science degree is designed for students who wish to pursue careers in web development and digital media. This program teaches technologies and techniques involved in designing and developing websites, web applications, user experiences, and digital content necessary to capture audiences in our increasingly mobile world. The degree is designed to enhance skills and help students discover the specific discipline that best suits their talents and interests. The degree offers an exciting variety of course options in a hands-on learning environment. Students have access to state-of-the-art computer and production labs. Coursework includes analysis of real-world case studies and hands-on projects that allow students to apply the concepts and skills they have learned to realistic business situations. Students are prepared for a variety of positions as web developers, web designers, user experience developers, and digital media specialists.

(Major Code 2030; CIP Code 11.0801)

Web Development & Digital Media Program web page (<http://www.jccc.edu/academics/credit/web-development-digital-media/>)

Program Learning Outcomes

Johnson County Community College (JCCC) is committed to offering high-quality affordable programs that focus on developing knowledge and skills conducive to life-long learning. Both the General Education Student Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/learning-outcomes.html>) and Institutional Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/institutional-learning-outcomes.html>) convey JCCC's approach to programmatic outcomes. Additionally, students who successfully complete the Web Development and Digital Media, AAS from JCCC will be able to:

- Create valid and semantically correct HTML pages.
- Create CSS documents that use cascading styles and follow best practices in responsive design.
- Create JS scripts and integrate them into HTML pages.
- Develop professional soft skills and documentation required for the web development industry.
- Develop content, communication, and project strategies.
- Create content following web page standards, policies, and requirements for accessibility and understand how to publish them to the web.
- Apply web analytic and search engine optimization techniques.
- Design and test interactive interfaces for web and screen media using best practices of web design.
- Build a portfolio of work demonstrating proficiency in either front-end and back-end web development or multimedia content creation and UI and UX design.

Associate of Applied Science Degree

Digital Media Option

First Semester		Hours
IT 120	CompTIA A+ Core 2	3
WEB 110	HTML and CSS	3
WEB 112	Professional Skills for the Digital Developer	3
WEB 114	Web Scripting: JavaScript I*	2
WEB 116	Digital Media Concepts	2
WEB 118	Digital Workflow	3
Hours		16
Second Semester		Hours
WEB 120	Web Analytics*	3
WEB 121	Digital Media Assets*	4
WEB 125	Digital Video Tools	1
WEB 126	Technical Interface Skills*	3
WEB 233	Visual Storytelling	3
WEB 243	Search Engine Optimization*	1
Hours		15
Third Semester		Hours
Program Elective (see below)		3
ENGL 121 or ENGL 119	Composition I (SGE 010) or College Composition I with Review*	3

WEB 231	User Experience*	4
WEB 237	Emerging Technologies*	3
Social and Behavioral and Sciences Elective ^		3
Hours		16
Fourth Semester		
Program Elective (see below)		5
WEB 290	Web Development and Digital Media Capstone*	3
Communications Elective ^^		3
Arts and Humanities Elective ^		3
Mathematics or Sciences Elective ^		3
Hours		17
Total Hours		64

Web Development Option

First Semester		Hours
IT 120	CompTIA A+ Core 2	3
WEB 110	HTML and CSS	3
WEB 112	Professional Skills for the Digital Developer	3
WEB 114	Web Scripting: JavaScript I*	2
WEB 116	Digital Media Concepts	2
WEB 118	Digital Workflow	3
Hours		16
Second Semester		
WEB 120	Web Analytics*	3
WEB 122	CSS Techniques & Projects*	3
WEB 124	Web Scripting: JavaScript II*	2
WEB 126	Technical Interface Skills*	3
WEB 128	Server Scripting: PHP with MySQL*	2
WEB 239	Introduction to Application Programming Interfaces (APIs)*	2
Hours		15
Third Semester		
Program Elective (see below)		3
ENGL 121 or ENGL 119	Composition I ^{SGE (010)} or College Composition I with Review*	3
WEB 234 or WEB 240	Web Apps I or HTML and CSS II*	3
WEB 238	Interactive Scripting: JQuery*	4
Social and Behavioral and Sciences Elective ^		3
Hours		16
Fourth Semester		
Program Elective (see below)		5
WEB 290	Web Development and Digital Media Capstone*	3
Communications Elective ^^		3
Arts and Humanities Elective ^		3
Mathematics or Sciences Elective ^		3
Hours		17
Total Hours		64

Program Electives

Code	Title	Hours
CS 134	Programming Fundamentals	4
CIS 124	Introduction to Computer Concepts and Applications	3
CSS 105	Introduction to Personal Computers: Windows	1
CSS 106	Introduction to Personal Computers: Macintosh	1
CSS 128	PC Applications: MS Office	3
VDA 112	Photoshop I*	1

VDA 114	Illustrator I*	1
VDA 116	InDesign I*	1
VDA 122	Photoshop II*	2
VDA 124	Illustrator II*	2
VDA 126	InDesign II*	2
VDA 130	Motion Graphics	3
VDA 190	Applications for Visual Design*	3
VDA 292	Special Topics:	1-3
WEB 121	Digital Media Assets*	4
WEB 122	CSS Techniques & Projects*	3
WEB 124	Web Scripting: JavaScript II*	2
WEB 125	Digital Video Tools	1
WEB 128	Server Scripting: PHP with MySQL*	2
WEB 172	WordPress I*	1
WEB 231	User Experience*	4
WEB 233	Visual Storytelling	3
WEB 237	Emerging Technologies*	3
WEB 239	Introduction to Application Programming Interfaces (APIs)*	2
WEB 243	Search Engine Optimization*	1
WEB 245	Motion Graphics Tools*	1
WEB 292	Special Topics:*	1-3
WEB 294	Web Development and Digital Media Internship*	1

* This course has registration requirements.

^ See all AAS general education electives (<https://catalog.jccc.edu/archives/2025-26/degree/requirements/associate-applied-science/>).

+ ENGL 140 is recommended.

Kansas Systemwide General Education (SGE) Key

- English SGE ⁰¹⁰
- Communications SGE ⁰²⁰
- Mathematics and Statistics SGE ⁰³⁰
- Natural and Physical Sciences SGE ⁰⁴⁰
- Social and Behavioral Sciences SGE ⁰⁵⁰
- Arts and Humanities SGE ⁰⁶⁰
- Cavalier Credits SGE ⁰⁷⁰

JCCC General Education Requirements

English and Communications, Associate of Applied Science (3 hrs.)

Code	Title	Hours
ENGL 121 or ENGL 119	Composition I* (SGE 010) College Composition I with Review*	3
If your specific degree program requires a communications elective, select one from the following:		3
COMS 120	Interpersonal Communication (SGE 020) (SGE 070)	
COMS 121	Public Speaking (SGE 020) (SGE 070)	
COMS 125	Personal Communication (SGE 020) (SGE 070)	
ENGL 122	Composition II* (SGE 010) (SGE 070)	
ENGL 123	Technical Writing I* (SGE 060) (SGE 070)	
ENGL 140	Writing for Interactive Media* (SGE 060) (SGE 070)	

Arts and Humanities, Associate of Applied Science (3 hrs.)

Code	Title	Hours
Art History		
ARTH 180	Art History: Ancient to Medieval (SGE 060) (SGE 070)	3
ARTH 182	Art History: Renaissance to Modern (SGE 060) (SGE 070)	3
ARTH 184	Art History: Twentieth Century (SGE 060) (SGE 070)	3
ARTH 188	History of Photography (SGE 060) (SGE 070)	3
ARTH 200	Women, Art, and Society (SGE 060) (SGE 070)	3
Communications		
COMS 180	Intercultural Communication (SGE 070)	3
English		
English (Literature)		
ENGL 130	Introduction to Literature* (SGE 060) (SGE 070)	3
ENGL 214	Environmental Literature* (SGE 060) (SGE 070)	3
ENGL 215	U.S. Latino and Latina Literature* (SGE 060) (SGE 070)	3
ENGL 216	African-American Literature* (SGE 060) (SGE 070)	3
ENGL 217	Literature by Women* (SGE 060) (SGE 070)	3
ENGL 227	Introduction to Poetry* (SGE 060) (SGE 070)	3
ENGL 230	Introduction to Fiction* (SGE 060) (SGE 070)	3
ENGL 232	Children's Literature* (SGE 060) (SGE 070)	3
ENGL 235	Drama as Literature* (SGE 060) (SGE 070)	3
ENGL 236	British Literature to 1800* (SGE 060) (SGE 070)	3
ENGL 237	British Literature after 1800* (SGE 060) (SGE 070)	3
ENGL 246	American Literature I* (SGE 060) (SGE 070)	3
ENGL 247	American Literature II* (SGE 060) (SGE 070)	3
ENGL 254	Masterpieces of the Cinema* (SGE 060) (SGE 070)	3
English (Writing)		
ENGL 222	Advanced Composition: The Art of the Essay* (SGE 060) (SGE 070)	3
ENGL 223	Introduction to Creative Writing* (SGE 060) (SGE 070)	3
ENGL 257	Generative AI and The Future of Writing* (SGE 060) (SGE 070)	3
Film and Media Studies		
FMS 100	Intro to Film (SGE 060) (SGE 070)	3
FMS 200	Intro to Filmmaking and Media Aesthetics (SGE 060) (SGE 070)	3
Foreign Languages		
FL 120	Elementary German I (SGE 060) (SGE 070)	5
FL 121	Elementary German II* (SGE 060) (SGE 070)	5
FL 130	Elementary Spanish I (SGE 060) (SGE 070)	5
FL 131	Elementary Spanish II* (SGE 060) (SGE 070)	5
FL 140	Elementary French I (SGE 060) (SGE 070)	5
FL 141	Elementary French II* (SGE 060) (SGE 070)	5
FL 165	Elementary Chinese I (SGE 060) (SGE 070)	5
FL 166	Elementary Chinese II* (SGE 060) (SGE 070)	5
FL 170	Elementary Japanese I (SGE 060) (SGE 070)	5
FL 171	Elementary Japanese II* (SGE 060) (SGE 070)	5
FL 182	Intermediate Japanese I* (SGE 060) (SGE 070)	5
FL 183	Intermediate Japanese II* (SGE 060) (SGE 070)	5
FL 220	Intermediate German I* (SGE 060) (SGE 070)	3
FL 221	Intermediate German II* (SGE 060) (SGE 070)	3
FL 230	Intermediate Spanish I* (SGE 060) (SGE 070)	3



FL 231	Intermediate Spanish II* (SGE 060) (SGE 070)	3
FL 240	Intermediate French I* (SGE 060) (SGE 070)	3
FL 241	Intermediate French II* (SGE 060) (SGE 070)	3
FL 265	Intermediate Chinese I* (SGE 060) (SGE 070)	3
FL 266	Intermediate Chinese II* (SGE 060) (SGE 070)	3
History		
HIST 120	Local and Kansas History (SGE 060) (SGE 070)	3
HIST 125	Western Civilization: Ancient World to the Renaissance (SGE 060) (SGE 070)	3
HIST 126	Western Civilization: Scientific Revolution to the Modern Age (SGE 060) (SGE 070)	3
HIST 128	Medieval History (SGE 060) (SGE 070)	3
HIST 129	Early Modern Europe 1500-1789 (SGE 060) (SGE 070)	3
HIST 130	European History Since 1789 (SGE 060) (SGE 070)	3
HIST 132	History of Africa (SGE 060) (SGE 070)	3
HIST 135	Eastern Civilization (SGE 060) (SGE 070)	3
HIST 137	African American History (SGE 060) (SGE 070)	3
HIST 140	U.S. History to 1877 (SGE 060) (SGE 070)	3
HIST 141	U.S. History Since 1877 (SGE 060) (SGE 070)	3
HIST 143	Ancient Greece, the Near East and Egypt (SGE 060) (SGE 070)	3
HIST 145	History of Ancient Rome (SGE 060) (SGE 070)	3
HIST 149	History of India (SGE 060) (SGE 070)	3
HIST 150	Islam: Religion and Civilization (SGE 060) (SGE 070)	3
HIST 151	World History: Traditional (SGE 060) (SGE 070)	3
HIST 152	World History: Modern World (SGE 060) (SGE 070)	3
HIST 160	Modern Russian History (SGE 060) (SGE 070)	3
HIST 162	Modern Latin America (SGE 060) (SGE 070)	3
HIST 165	History of China (SGE 060) (SGE 070)	3
HIST 167	Introduction to History: Japan (SGE 060) (SGE 070)	3
HIST 180	North American Indian History (SGE 060) (SGE 070)	3
HIST 195	History of the Middle East (SGE 060) (SGE 070)	3
HIST 200	Empires of the Silk Road (SGE 060) (SGE 070)	3
HIST 210	Environmental History of North America (SGE 060) (SGE 070)	3
HIST 250	American West (SGE 060) (SGE 070)	3
HIST 260	Women in U.S. History (SGE 060) (SGE 070)	3
Humanities		
HUM 122	Introduction to Humanities (SGE 060) (SGE 070)	3
HUM 145	World Humanities: Ancient to Medieval (SGE 060) (SGE 070)	3
HUM 146	World Humanities: Renaissance to Modern (SGE 060) (SGE 070)	3
HUM 150	Islam: Religion and Civilization (SGE 060) (SGE 070)	3
HUM 155	Classical Mythology (SGE 060) (SGE 070)	3
HUM 156	Contemporary Approaches to World Mythology (SGE 060) (SGE 070)	3
HUM 165	Introduction to Chinese Culture (SGE 060) (SGE 070)	3
HUM 167	Introduction to Japanese Culture (SGE 060) (SGE 070)	3
Journalism		
JOUR 120	Mass Media and Society (SGE 060) (SGE 070)	3
Music		
MUS 121	Introduction to Music Listening (SGE 060) (SGE 070)	3
MUS 125	Introduction to Jazz Listening (SGE 060) (SGE 070)	3
MUS 126	Introduction to World Music (SGE 060) (SGE 070)	3
MUS 128	History of Rock and Roll Music (SGE 060) (SGE 070)	3

Religion

REL 120	Exploring World Religions (SGE 060) (SGE 070)	3
REL 125	Asian Religions (SGE 060) (SGE 070)	3
REL 126	Religions of the West (SGE 060) (SGE 070)	3
REL 150	Islam: Religion and Civilization (SGE 060) (SGE 070)	3

Philosophy

PHIL 121	Introduction to Philosophy (SGE 060) (SGE 070)	3
PHIL 124	Logic and Critical Thinking (SGE 060) (SGE 070)	3
PHIL 128	Environmental Ethics (SGE 060) (SGE 070)	3
PHIL 130	Food Ethics (SGE 060) (SGE 070)	3
PHIL 143	Ethics (SGE 060) (SGE 070)	3
PHIL 154	History of Ancient Philosophy (SGE 060) (SGE 070)	3
PHIL 176	Philosophy of Religion (SGE 060) (SGE 070)	3

Photography

PHOT 200	Foundations in Photography (SGE 060) (SGE 070)	3
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Theater

THEA 120	Introduction to Theater (SGE 060) (SGE 070)	3
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Social and Behavioral Sciences, Associate of Applied Science (3 hrs.)

Code	Title	Hours
Anthropology		
ANTH 125	Cultural Anthropology (SGE 050) (SGE 070)	3
ANTH 126	Physical Anthropology (SGE 050) (SGE 070)	3
ANTH 130	World Cultures (SGE 050) (SGE 070)	3
ANTH 142	World Prehistory (SGE 050) (SGE 070)	3
ANTH 165	Linguistic Anthropology (SGE 050) (SGE 070)	3
Criminal Justice		
CJ 121	Introduction to Criminal Justice System (SGE 050) (SGE 070)	3
CJ 141	Criminal Law (SGE 050) (SGE 070)	3
CJ 223	International Criminal Justice Systems (SGE 050) (SGE 070)	3
Economics		
ECON 132	Survey of Economics (SGE 050) (SGE 070)	3
ECON 230	Principles of Macroeconomics (SGE 050) (SGE 070)	3
ECON 231	Principles of Microeconomics (SGE 050) (SGE 070)	3
Geoscience		
GEOS 145	World Regional Geography (SGE 050) (SGE 070)	3
GEOS 155	Human Geography (SGE 050) (SGE 070)	3
Legal Studies		
LAW 120	Introduction to Paralegal Studies (SGE 050) (SGE 070)	3
LAW 121	Introduction to Law (SGE 050) (SGE 070)	3
Political Science		
POLS 122	Political Science (SGE 050) (SGE 070)	3
POLS 124	American National Government (SGE 050) (SGE 070)	3
POLS 126	State and Local Government (SGE 050) (SGE 070)	3
POLS 132	Introduction to Comparative Government (SGE 050) (SGE 070)	3
POLS 135	International Relations (SGE 050) (SGE 070)	3
POLS 175	Environmental Policy and Law (SGE 050) (SGE 070)	3
POLS 192	Political Theory (SGE 050) (SGE 070)	3
POLS 200	Model United Nations (SGE 050) (SGE 070)	3
POLS 220	Introduction to Public Policy (SGE 050) (SGE 070)	3



POLS 245	Introduction to Public Administration (SGE 050) (SGE 070)	3
Psychology		
PSYC 121	Applied Psychology (SGE 050) (SGE 070)	3
PSYC 130	Introduction to Psychology (SGE 050) (SGE 070)	3
PSYC 215	Child Development* (SGE 050) (SGE 070)	3
PSYC 218	Human Development* (SGE 050) (SGE 070)	3
Sociology		
SOC 122	Introduction to Sociology (SGE 050) (SGE 070)	3
SOC 125	Social Problems (SGE 050) (SGE 070)	3
SOC 131	Sociology of Families (SGE 050) (SGE 070)	3
SOC 146	Introduction to Social Work and Social Welfare (SGE 050) (SGE 070)	3
Gender and Ethnic Studies		
WGS 201	Global Women's Studies (SGE 050) (SGE 070)	3

Mathematics and Sciences, Associate of Applied Science (3 hrs.)

Code	Title	Hours
Mathematics		
MATH 120	Business Mathematics*	3
MATH 130	Technical Mathematics I*	3
MATH 131	Technical Mathematics II*	3
MATH 151	Contemporary Mathematics* (SGE 030) (SGE 070)	3
MATH 161	Elementary Statistics* (SGE 030) (SGE 070)	3
MATH 171	College Algebra* (SGE 030) (SGE 070)	3
MATH 172	Trigonometry* (SGE 030) (SGE 070)	3
MATH 173	Precalculus* (SGE 030) (SGE 070)	5
MATH 175	Discrete Mathematics and its Applications* (SGE 030) (SGE 070)	3
MATH 201	Statistics* (SGE 030) (SGE 070)	3
MATH 231	Business and Applied Calculus I* (SGE 030) (SGE 070)	3
MATH 232	Business and Applied Calculus II* (SGE 030) (SGE 070)	3
MATH 241	Calculus I* (SGE 030) (SGE 070)	5
MATH 242	Calculus II* (SGE 030) (SGE 070)	5
MATH 243	Calculus III* (SGE 030) (SGE 070)	5
MATH 254	Differential Equations* (SGE 030) (SGE 070)	4
MATH 285	Statistics for Business* (SGE 030) (SGE 070)	4
Life Science		
BIOL 121	Introductory Biology for Non-Majors (SGE 040) (SGE 070)	4
BIOL 125	General Botany (SGE 040) (SGE 070)	5
BIOL 127	General Zoology (SGE 040) (SGE 070)	5
BIOL 135	Principles of Cell and Molecular Biology (SGE 040) (SGE 070)	4
BIOL 140	Human Anatomy (SGE 040) (SGE 070)	4
BIOL 144	Human Anatomy and Physiology* (SGE 040) (SGE 070)	5
BIOL 150	Biology of Organisms* (SGE 040) (SGE 070)	5
BIOL 161	Introduction to Biotechnology (SGE 040) (SGE 070)	4
BIOL 225	Human Physiology* (SGE 040) (SGE 070)	4
BIOL 230	Microbiology* (SGE 040) (SGE 070)	3
BIOL 231	Microbiology Lab* (SGE 040) (SGE 070)	2
EVRN 124	Oceanus: Essentials of Oceanography (SGE 040) (SGE 070)	3
EVRN 130	Environmental Science (SGE 040) (SGE 070)	3
EVRN 132	Environmental Science Laboratory* (SGE 040) (SGE 070)	2
EVRN 134	Principles of Sustainability	3

EVRN 250	Bioethics in Science and Research*	3
EVRN 275	Nature, Law, and Environmental Protection*	3
Physical Science		
ASTR 120	Fundamentals of Astronomy	3
ASTR 122	Astronomy (SGE 040) (SGE 070)	4
CHEM 120	Chemistry in Society* (SGE 040) (SGE 070)	4
CHEM 122	Principles of Chemistry* (SGE 040) (SGE 070)	5
CHEM 124	General Chemistry I Lecture* (SGE 040) (SGE 070)	4
CHEM 125	General Chemistry I Lab* (SGE 040) (SGE 070)	1
CHEM 131	General Chemistry II Lecture* (SGE 040) (SGE 070)	4
CHEM 132	General Chemistry II Lab* (SGE 040) (SGE 070)	1
CHEM 140	Principles of Organic & Biological Chemistry* (SGE 040) (SGE 070)	5
ENGR 121	Engineering Orientation	2
GEOS 130	General Geology (SGE 040) (SGE 070)	5
GEOS 140	Physical Geography (SGE 040) (SGE 070)	3
GEOS 141	Physical Geography Lab* (SGE 040) (SGE 070)	2
GEOS 160	Introduction to Meteorology (SGE 040) (SGE 070)	5
PHYS 130	College Physics I* (SGE 040) (SGE 070)	5
PHYS 131	College Physics II* (SGE 040) (SGE 070)	5
PHYS 220	Engineering Physics I* (SGE 040) (SGE 070)	5
PHYS 221	Engineering Physics II* (SGE 040) (SGE 070)	5
PSCI 120	Physical Science (SGE 040) (SGE 070)	4

Cavalier Credits (3 hrs.)

Code	Title	Hours
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Requires the completion of 3 additional credit hours to be selected from one of the above general education categories.

General Education Hours: 15