

Advisement and Transfer Services

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**Northwest – Kansas City | Kansas City Kansas Community College
B.S. Computer Science: Mobile Computing Emphasis
Transfer Guide**

Important Notes

- An **Associate of Arts** degree may be able to waive some CORE requirements at Northwest. Seek advisement for proper course selection. **Digital Literacy, Global Experiences, and any course listed as required cannot be waived by a prior A.A. degree.**
- Kansas City Kansas Community College – Kansas City courses marked with (*) are listed under two different CORE categories. They may transfer to satisfy only one of Northwest's CORE areas, not both.
- This guide is for the 2016-2017 undergraduate academic catalog. As new catalogs come into effect at Northwest, degree requirements may change. Students will automatically be placed under the catalog of initial enrollment at Northwest, or may choose to move forward catalog years. However, transfer students are eligible to graduate within the Northwest catalog upon which they were initially enrolled at the community college if they had been continuously enrolled and had not sat out for more than 18 months.
 - **Returning students** who are accepted to return to Northwest will be automatically placed under the catalog of initial re-enrollment at Northwest. If a student wishes to return to the catalog they were under while previously attending Northwest, please contact the Registrar's Office at REGISTRAR@nwmissouri.edu.

Contact Us!

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**CORE Requirements
(48-52 credit hours)**

| Course Number | Course Name | Course Number | Course Name |
|---|--|---|---|
| Critical Northwest CORE Courses (must be completed prior to beginning at NWKC) | | | |
| CSIS 44-101 | Foundations of Computing (required) | CIST 0101 or CIST 0111 | Computer Concepts & Applications (required) or Microcomputer Business Software (required) **Neither of these courses directly equates to CSIS 44-101, but the Computer Science department will do a substitution to fulfil this CORE requirement in degree audit. |
| MATH 17-117 or MATH 17-118 | Precalculus (for Math Option A) (required) or College Algebra (for Math Option B) (required) | MATH 0108 or MATH 0105 | Precalculus (for Math Option A) (required) or College Algebra (for Math Option B) (required) |
| COM 29-102 | Fundamentals of Oral Communication | SPCH 0151 or SPCH 0153 | Public Speaking or Interpersonal Communication |
| ENGL 10-111 | Composition I: Academic Literacies | ENGL 0101 | Composition I |
| ENGL 10-112 | Composition II: Writing as Engagement | ENGL 0102 | Composition II |
| HIST 33-155 or HIST 33-156 | US History to 1877 or US History since 1877 | HIST 0104 or HIST 0105 | United States to 1877 or United States since 1877 |
| POLS 34-102 | Introduction to American Government & Politics | POSC 0111 | American Government |
| Global Experiences (choose 1) **Cannot be waived by AA degree. | | | |
| ENGL 10-226 LANG 14-131 LANG 14-132 LANG 14-141 LANG 14-142 LANG 14-151 HUM 26-162 EDUC 61-252 | Modern and Contemporary World Literature French: Communication and Culture I French: Communication and Culture II Spanish: Communication and Culture I Spanish: Communication and Culture II Intro. to American Sign Language & Deaf Culture Comparative Religions Pluralism in a Multicultural Society | ENGL 0106 LANG 0101 LANG 0102 LANG 0141 LANG 0142 HUDV 0263 HUMN 0207 EDUC 0262 | Modern World Literature* French I French II Spanish I Spanish II American Sign Language I Comparative World Religions* Education in a Multicultural Society |
| COM 29-225 ENGL 10-224 GEOG 32-102 HUM 26-104 LANG 14-161 LANG 14-162 MUS 19-280 MMED 20-221 POLS 34-105 REC 45-211 CORE 90-206 | Other options: Intercultural Communication Multiethnic Literature of the US Peoples and Cultures of the World The Eastern World Russian: Communication and Culture I Russian: Communication and Culture I World Music Ethnographic Film Study The African World Leisure and Society Interdisciplinary Engagement: Global Experiences | ANTH 0106 BUSN 0214 ENGL 0105 ENGL 0135 ENGL 0220 ENGL 0221 GEOG 0101 LANG 0121 LANG 0122 LANG 0161 LANG 0162 HIST 0115 HIST 0116 HUMN 0152 SOSC 0109 | Other options: Native American Indians* International Business Cultures Early World Literature* World Mythology* American Indian Literature* Latino Literatures & Cultures* Intro to Cultural Geography* German I German II Arabic I Arabic II World Civilization I* World Civilization II* Women in Religion Diversity Studies |
| Western Experiences (choose 1) | | | |
| HUM 26-102 | Western Civ I: Ancient World to 1500 | HIST 0204 or HIST 0117 | Western Civilization I or Readings in Western Civilization I |
| HUM 26-103 | Western Civ II: 1500 to Present | HIST 0205 or HIST 0118 | Western Civilization II or Readings in Western Civilization II |
| PHIL 39-171 PHIL 39-274 PHIL 39-276 | Intro to Philosophy Historical Ethics Bio-Medical Ethics | PHIL 0103 PHIL 0206 PHIL 0207 | Intro to Philosophy Ethics Philosophical Found. In Healthcare Ethics |
| COM 29-235 PHIL 39-275 | Other options: Intro to Classical Rhetoric Professional Ethics | HIST 0103 HIST 0106 HIST 0108 HIST 0109 HIST 0115 HIST 0116 HUMN 0101 HUMN 0102 HUMN 0207 PHIL 0105 PHIL 0107 | Other options: Modern Asia Black History Religion in America The Bible as History World Civilization I* World Civilization II* Arts & Culture of the Early World Arts & Culture of the Modern World Comparative World Religions* Logic Business Ethics |
| Literature (choose 1) | | | |
| ENGL 10-220 | Intro to Literature | ENGL 0104 ENGL 0105 ENGL 0106 ENGL 0108 | Introduction to Literature Other options: Early World Literature* Modern World Literature* Intro to Poetry |

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|--|---|---|---|
| | | ENGL 0109 ENGL 0132 ENGL 0133 ENGL 0135 ENGL 0140 ENGL 0210 ENGL 0211 ENGL 0212 ENGL 0214 ENGL 0217 ENGL 0218 ENGL 0220 ENGL 0221 | Intro to Fiction Intro to Science Fiction Women in Literature World Mythology* Detective Fiction Early American Literature Modern American Literature Drama as Literature: Early to Modern Afro American Literature Early English Literature Modern English Literature American Indian Literature* Latino Literatures & Cultures* |
| Fine Arts (choose 1) | | | |
| ART 13-102 ART 13-109 ART 13-111 MUS 19-201 THEA 43-101 | Art Appreciation Survey of Art I: Prehistory through Medieval Art Survey of Art II: Renaissance to the Present The Enjoyment of Music Theatre Appreciation | FNAR 0101 FNAR 0102 FNAR 0103 MUSC 0101 THTR 0101 | Art Appreciation Art History I Art History II Music Appreciation Theatre Appreciation |
| MUS 19-202 MUS 19-222 | Other options: Jazz Appreciation American Popular Music | HUMN 0200 THTR 0112 | Other options: Foundations of Film & Theatre Dance History |
| Social and Behavioral Sciences (choose 2 courses, from 2 different groups) | | | |
| ECON 52-150 | Economics Principles of Macroeconomics | ECON 0201 | Economics Principles of Macroeconomics |
| PSYC 08-103 | Psychology General Psychology | PSYC 0101 | Psychology Psychology |
| GEOG 32-101 | Geography Intro to Geography | GEOG 0101 or GEOG 0102 | Geography Intro to Cultural Geography* or Intro to Physical Geography |
| SOC 35-101 | Sociology General Sociology | SOSC 0107 | Sociology Sociology |
| SOC 35-108 | Anthropology General Anthropology | ANTH 0100 | Anthropology General Anthropology |
| AGRI 03-102 ECON 52-130 PSYC 08-299 | Other options: Introductory Agricultural Economics Survey of Economics Educational Psychology | ANTH 0101 ANTH 0102 ANTH 0105 ANTH 0106 ECON 0203 PSYC 0112 PSYC 0115 SOSC 0103 SOSC 0108 | Other options: Intro to Cultural Anthropology Intro to Physical Anthropology Archaeology Native American Indians* Intro to Labor Studies Psychology of Personal Adjustment The Grieving Process Intro to Social Sciences Sociology of the Family |
| Life Sciences (choose 1 with corresponding lab) | | | |
| BIOL 04-106/107 | Principles of Biology & Lab | BIOL 0121 | General Biology |
| AGRI 03-130 BIOL 04-102/103 | Other options: Plant Science General Biology & Lab | BIOL 0119 BIOL 0125 BIOL 0131/0132 BIOL 0141 BIOL 0143 | Other options: Life and the Environment & Lab Human Biology Environmental Science & Lab Human Anatomy & Lab Human Anatomy & Physiology |
| Physical Sciences (choose 1 with corresponding lab) | | | |
| CHEM 24-112/113 CHEM 24-114/115 PHYS 25-110/111 PHYS 25-112/113 PHYS 25-120/121 GEOL 27-110/111 PHSC 40-102/103 PHSC 40-122/123 | General Chemistry & Lab General Chemistry I & Lab General Physics I & Lab General Physics II & Lab Fundamentals of Classical Physics I & Lab General Geology & Lab The Physical Sciences & Lab Descriptive Astronomy & Lab | CHEM 0109 CHEM 0111 NASC 0231 NASC 0232 NASC 0245 NASC 0186 NASC 0103 NASC 0107/0108 | General Chemistry College Chemistry I & Lab General Physics I General Physics II Engineering Physics I Physical Geology & Lab General Physical Science Intro to Astronomy & Lab |
| GEOL 27-114/115 | Other options: General Earth Science & Lab | NASC 0130/0131 NASC 0175 | Other options: Introductory Physics & Lab Intro to Meteorology & Lab |

**B.S. Computer Science – Mobile Computing Emphasis
(68-71 credit hours)**

Critical Northwest CORE Courses (9 credit hours)

(must be completed prior to beginning at NWKC)

| | | | |
|-------------|-------------------------|--|---|
| CSIS 44-141 | Computer Programming I | | Offered during the summer session at Northwest. |
| CSIS 44-241 | Computer Programming II | | Offered during the summer session at Northwest. |
| CSIS 44-356 | Network Fundamentals | | No equivalent course. See NWKC advisor. |

Science Options (8-10 hours) – Choose one option (A, B or C)

The following course may NOT be used to satisfy any Northwest CORE requirement.

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|--------------------------------------|--|--------------------------|--|
| PHYS 25-110/111 & PHYS 25-112/113 | Option A General Physics I & Lab and General Physics II & Lab | NASC 0231 & NASC 0232 | Option A General Physics I and General Physics II |
| | Option B Fundamentals of Classical Physics I & Lab and Fundamentals of Classical Physics II & Lab | NASC 0245 & NASC 0246 | Option B Engineering Physics I and Engineering Physics II |
| CHEM 24-114/115 & CHEM 24-116/117 | Option C General Chemistry I & Lab and General Chemistry II & lab | CHEM 0111 & CHEM 0112 | Option C General Chemistry I and Lab and General Chemistry II and Lab |

Math Options (9-10 additional hours) – Choose one option (A or B)

Math Option A

| | | | |
|--------------------|---|---------------------------|---|
| MATH 17-117 | Precalculus (Required Northwest Core course) | MATH 0108 | Precalculus (Required Northwest Core Course) |
| MATH 17-120 | Calculus I | MATH 0120 or MATH 0122 | Calculus I or Calculus and Analytic Geometry I |
| <i>MATH 17-215</i> | <i>Discrete Mathematics</i> | | <i>Must be taken at Northwest.</i> |
| MATH 17-114 | General Statistics | MATH 0115 | Statistics <i>We recommend taking this course through Northwest.</i> |

Math Option B

| | | | |
|--------------------|---|-----------|---|
| MATH 17-118 | College Algebra (Required Northwest Core course) | MATH 0105 | College Algebra (Required Northwest Core Course) |
| MATH 17-114 | General Statistics | MATH 0115 | Statistics <i>We recommend taking this course through Northwest.</i> |
| <i>MATH 17-215</i> | <i>Discrete Mathematics</i> | | <i>Must be taken at Northwest</i> |
| <i>MATH 17-316</i> | <i>Linear Statistical Models I</i> | | <i>Must be taken at Northwest</i> |

Required Courses (42 credit hours)

| | | | |
|-------------|--|--|-----------------------------------|
| CSIS 44-242 | Data Structures | | <i>Must be taken at Northwest</i> |
| CSIS 44-296 | Professional Development Seminar | | <i>Must be taken at Northwest</i> |
| CSIS 44-345 | Computer Organization | | <i>Must be taken at Northwest</i> |
| CSIS 44-349 | A Survey of Algorithms | | <i>Must be taken at Northwest</i> |
| CSIS 44-460 | Database Systems | | <i>Must be taken at Northwest</i> |
| CSIS 44-525 | Theory & Implementation of Prog Lang | | <i>Must be taken at Northwest</i> |
| CSIS 44-550 | Operating Systems | | <i>Must be taken at Northwest</i> |
| CSIS 44-561 | Software Engineering Principles | | <i>Must be taken at Northwest</i> |
| CSIS 44-562 | Software Engineering Practice | | <i>Must be taken at Northwest</i> |
| CSIS 44-351 | Foundations of Game Development | | <i>Must be taken at Northwest</i> |
| CSIS 44-443 | Mobile Computing – iOS | | <i>Must be taken at Northwest</i> |
| CSIS 44-444 | Mobile Computing – Android | | <i>Must be taken at Northwest</i> |
| CSIS 44-451 | Advanced Topics in Mobile Computing | | <i>Must be taken at Northwest</i> |
| CSIS 44-563 | Developing Web Applications & Services | | <i>Must be taken at Northwest</i> |