

AS Science

The following provides information regarding courses required to complete this major at Virginia Western for planning purposes only. Please see the Academic Catalog and full disclosure statement at <http://catalog.virginiawestern.edu>.

| Completed Course | Course Title | Credit | Requisite | Term Offered |
|------------------------------|---|--------|--------------------------------------|--------------|
| SDV 100 | College Success Skills | 1 | | F, Sp, Su |
| SDV 101 | Orientation to Science | 1 | | F, Sp, Su |
| MTE 1 | Operations with Positive Fractions | ** | Math Placement | F, Sp, Su |
| MTE 2 | Operations with Positive Decimals and Percents | ** | MTE 1 | F, Sp, Su |
| MTE 3 | Algebra Basics | ** | MTE 2 | F, Sp, Su |
| MTE 4 | First Degree Equations and Inequalities in One Variable | ** | MTE 3 | F, Sp, Su |
| MTE 5 | Linear Equations, Inequalities and Systems of Linear Equations in Two Variables | ** | MTE 4 | F, Sp, Su |
| MTE 6 | Exponents, Factoring and Polynomial Equations | ** | MTE 5 | F, Sp, Su |
| MTE 7 | Rational Expressions and Equations | ** | MTE 6 | F, Sp, Su |
| MTE 8 | Rational Exponents and Radicals | ** | MTE 7 | F, Sp, Su |
| MTE 9 | Functions, Quadratic Equations and Parabolas | ** | MTE 8 | F, Sp, Su |
| ENG 111 | College Composition I | 3 | English Placement | F, Sp, Su |
| MTH 161 | Pre-Calculus I | 3 | MTE 1-9 | F, Sp, Su |
| MTH 167 | Pre-Calculus with Trigonometry | 3 | MTE 1-9 | F, Sp, Su |
| Science w/Lab Elective I | BIO 101, BIO 141, CHM 111, GOL 105, NAS 131, PHY 201 or PHY 241 | 4 | See Catalog for specific course info | F, Sp, Su |
| ITE 115 | Intro to Computer Applications and Concepts | 3 | | F, Sp, Su |
| ITE 119 | Information Literacy | | | F, Sp |
| ENG 112 | College Composition II | 3 | ENG 111 | F, Sp, Su |
| MTH 261 | Applied Calculus I | 3 | MTH 161 or MTH 167 - C | F, Sp, Su |
| MTH 263 | Calculus I | 3 | MTH 167 - C | F, Sp, Su |
| Science w/Lab Elective II | BIO 102, BIO 142, CHM 112, GOL 106, NAS 132, PHY 202 or PHY 242 | 4 | See Catalog for specific course info | F, Sp, Su |
| HUM/FA | Humanities/Fine Arts Elective | 3 | | F, Sp, Su |
| TRANSFER | Transfer Elective | 3 | | F, Sp, Su |
| HIS 121 | United States History I | 3 | | F, Sp, Su |
| HIS 111 | History of World Civilization I | 3 | | F, Sp, Su |
| MTH 262 | Applied Calculus II | 3 | MTH 261 - C | F, Sp, Su |
| MTH 264 | Calculus II | 3 | MTH 263 - C | F, Sp, Su |
| Science w/Lab Elective III | BIO 101, BIO 141, BIO 251, CHM 111, CHM 241/245, GOL 105, NAS 131, PHY 201 or PHY 241 | 4 | See Catalog for specific course info | F, Sp, Su |
| SOC SCI | Social Science Elective | 3 | | F, Sp, Su |
| TRANSFER | Transfer Elective | 3 | | F, Sp, Su |
| HUM/FA | Humanities/Fine Arts Elective | 3 | | F, Sp, Su |
| SOC SCI | Social Science Elective | 3 | | F, Sp, Su |
| Science w/Lab Elective IV | BIO 102, BIO 142, BIO 252, CHM 112, CHM 242/246, GOL 106, NAS 132, PHY 202 or PHY 242 | 4 | See Catalog for specific course info | F, Sp, Su |
| Science without Lab Elective | Any BIO, CHM, GOL, NAS or PHY course | 3 | See Catalog for specific course info | F, Sp, Su |

Total program credits: 60

**MTE classes are developmental courses. Students may place out of these classes based on various measures, including high school GPA, standardized test scores, or placement testing.

Social Science Electives

ECO 201 Principles of Macroeconomics
 ECO 202 Principles of Microeconomics
 GEO 210 People and the Land: Introduction to Cultural Geography
 GEO 220 World Regional Geography
 HIS 101 History of Western Civilization I
 HIS 102 History of Western Civilization II
 HIS 111 History of World Civilization I
 HIS 112 History of World Civilization II
 HIS 121 United States History I
 HIS 122 United States History II
 PLS 211 U.S. Government I
 PLS 212 U.S. Government II
 PSY 200 Principles of Psychology
 PSY 215 Abnormal Psychology
 PSY 216 Social Psychology
 PSY 225 Theories of Personality
 PSY 230 Developmental Psychology
 PSY 235 Child Psychology
 PSY 236 Adolescent Psychology
 SOC 200 Principles of Sociology
 SOC 215 Sociology of the Family
 SOC 266 Race and Ethnicity

Transfer Electives

Any course off the Social Science, Science or Hum/FA lists on this page or any course below will satisfy this requirement

MTH 155 Statistical Reasoning
 MTH 245 Statistics I
 MTH 265 Calculus III

Humanities/Fine Arts Electives

ART 101 History and Appreciation of Art I
 ART 102 History and Appreciation of Art II
 CST 130 Introduction to the Theatre
 ENG 241 Survey of American Literature I
 ENG 242 Survey of American Literature II
 ENG 243 Survey of English Literature I
 ENG 244 Survey of English Literature II
 ENG 251 Survey of World Literature I
 ENG 252 Survey of World Literature II
 FRE 201 Intermediate French I
 FRE 202 Intermediate French II
 HUM 201 Survey of Western Culture I
 HUM 202 Survey of Western Culture II
 MUS 121 Music Appreciation I
 MUS 122 Music Appreciation II
 PHI 101 Introduction to Philosophy I
 PHI 220 Ethics
 REL 200 Survey of the Old Testament
 REL 210 Survey of the New Testament
 REL 230 Religions of the World
 REL 231 Religions of the World I
 REL 232 Religions of the World II
 REL 247 History of Christianity
 SPA 201 Intermediate Spanish I
 SPA 202 Intermediate Spanish II

Science Electives

BIO 101 General Biology I 4 CR *
 BIO 102 General Biology II 4 CR *
 BIO 141 Human Anatomy and Physiology I 4 CR *
 BIO 142 Human Anatomy and Physiology II 4 CR *
 BIO 173 Biology for Biotechnology 4 CR *
 BIO 205 General Microbiology 4 CR *
 BIO 206 Cell Biology 4 CR *
 BIO 215 Plant Life of Virginia 3 CR
 BIO 220 Immunology 3 CR *
 BIO 251 Protein Applications in Biotechnology 4 CR *
 BIO 252 Nucleic Acid Methods 4 CR *
 CHM 111 General Chemistry I 4 CR *
 CHM 112 General Chemistry II 4 CR *

CHM 241 Organic Chemistry I 3 CR *
 CHM 242 Organic Chemistry II 3 CR *
 CHM 260 Introductory Biochemistry 3 CR *
 ENV 161 Intro to Environmental Compliance 3 CR
 ENV 162 Environ. Principles in Public Health 3 CR
 GOL 105 Physical Geology 4 CR *
 GOL 106 Historical Geology 4 CR *
 NAS 131 Astronomy I 4 CR *
 NAS 132 Astronomy II 4 CR *
 PHY 201 General College Physics I 4 CR *
 PHY 202 General College Physics II 4 CR *
 PHY 241 University Physics I 4 CR *
 PHY 242 University Physics II 4 CR *

