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| **Blue Ridge CTC Mathematics Specialization (5-Adult for transfer to Shepherd University** |
| BRCTC Course |  | Equivalent SU Course |
| Year 1 - Semester 1 |
| ENGL 101 | Written English I | 3 | ENGL 101 | Writing and Rhetoric I |
| HIST 101 *or*HIST 102 | Early Man to 1500 *or*Renaissance to Modem | 3 | HIST 101 *or*HIST 102 | History Civ: Ancient Worlds *or*History Civ: Change and Global Connections |
| ART 103 *or*MUSC 111 | Introduction to Visual Arts *or*Introduction to Music | 3 | ART 103 *or*MUSC 111 | Introduction to Visual Arts *or*Introduction to Music |
| COMM202 | Fundamentals of Speech | 3 | COMM202 | Fundamentals of Speech |
| MATH 108 | Pre-Calculus | 4 | MATH 108 | Pre-Calculus (YR 3 FALL Elective) |
| EDUC 150 | Seminar in Education | 1 | EDUC 150 | Seminar in Education |
|  |  | **17** |  |  |
| Year 1 - Semester 2 |
| MATH207 | Calculus I | 4 | MATH207 | Calculus I |
| ENGL 102 | Writing for Arts & Humanities | 3 | ENGL 102 | Writing and Rhetoric II |
| IT 188 | Intro to Programming Logic | 3 | ENGR 102 | Engineering II |
| EDUC200 | Foundations of Education | 3 | EDUC200 | Foundations of American Education |
| ECON205 | Principles of Macroeconomics | 3 | ECON205 | Principles of Macroeconomics |
|  |  | **16** |  |  |
| Year 2 - Semester 1 |
| PHYS 221/221L | General Physics I | 4 | PHYS 221/221L | General Physics I |
| EDUC260 | Survey of Exceptional Child | 3 | EDUC360 | Survey of Exceptional Child |
| ENGL208 *or* ENGL204 *or* HIST 201 *or*HIST 202 | Survey of World Literature *or* Survey of American Literature *or* US History to 1877 *or*US History from 1877 | 3 | ENGL208 *or* ENGL204 *or* HIST 201 *or*HIST 202 | Survey of World Literature *or* Survey of American Literature *or* History of the US to 1865 *or* History of the US 1865 to Present |
| GSPE210 | Fitness for Life | 3 | GSPE 210 | Fitness for Life |
| EDUC292 | Praxis Prep | 1 |  |  |
|  |  | **14** |  |  |
| Year 2 - Semester 2 |
| **PHYS** 222/222L | General Physics II | 4 | **PHYS** 222/222L | General Physics II |
| EDUC220 | Social/Psych Cond Learn | 4 | EDUC320 | Social/Psych Cond Learn |
| **MATH** 114 | *Elementary Probability and Statistics* | 6 | **MATH** 109 | Statistical Reasoning |
|  |  | **14** |  |  |

Note: Due to course sequences, students will need to work closely with a math education advisor and will need to concurrently enroll in Shepherd Math classes to complete in 4 years.

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| **Upper-Level Course Rotation at Shepherd University** |
| Year 3 - Semester 1 | Year 3 - Semester 2 |
| MATH 307 | Linear Algebra | 3 | EDUC 370 | Reading in the Content Area | 3 |
| MATH 310 | Differential Equations | 4 | MATH 329 | Mathematical Modeling | 3 |
| MATH312 | Introduction to Abstract Algebra | 3 | MATH 309 | Calculus Ill | 4 |
| MATH 208 | Calculus II | 4 | MATH 321 | Probability and Statistics | 3 |
| MATH 155 | Discrete Structures | 3 | MATH254 | Discrete Mathematics | 3 |
|  |  | **17** |  |  | **16** |
| Year 4 - Semester 1 | Year 4 - Semester 2 |
| EDUC443 | Reading in the Content Area | 3 | EDUC400 | Inclusion in the Regular Classroom | 3 |
| EDUC 380 | Technology in 21st-Century Teaching and Learning | 3 | EDUC 456 | Student Teaching 5-12 | 9 |
| EDUC420 | Special Methods of Teaching Mathematics | 3 | MATH489 | Mathematics Capstone | 1 |
| MATH 414 | History of Mathematics | 3 |  |  | 13 |
| MATH424 | Foundations of Geometry | 3 |  |
|  |  | **15** |

Note: Due to course sequences, BR students will need to work closely with a SU math education advisor and will need to concurrently enroll in Shepherd Math classes to complete in 4 years.

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