

**BS MATHEMATICS 2012-2013**

Transfer Institution: **River Valley Community College** (2012-2013 Catalog)

| <b>PSU Requirement (2012-13 Catalog)</b>          | <b>Credits</b> | <b>Satisfied by RVCC (2012-13 Catalog)</b>  | <b>Credits</b> |
|---|----------------|---|----------------|
| MA 2550 Calculus I (ORCO)                         | 4              | MTHC 210 Calculus I   | 4              |
| MA 2560 Calculus II (ORCO)                        | 4              | MTHC 211 Calculus II  | 4              |
| MA 3110 Logic, Proofs, Axiomatic Systems (WRCO)   | 3              | MTHC 216 Math Language, Logic and Proof   | 4              |
| MA 3120 Linear Algebra                            | 3              | MTHC 215 Linear Algebra   | 4              |
| MA 3500 Probability and Statistics for Scientists | 3              | MTHC 217 Probability and Statistics   | 4              |
| MA 3510 Differential Equations                    | 3              | MTHC 220 Elementary Differential Equations  | 4              |
| MA 3540 Calculus III                              | 4              | MTHC 212 Multivariate Calculus  | 4              |
| EN 1200 Composition                               | 3              | ENG 102 or ENG 201 or ENG 249   | 3              |
| CTDI Creative Thought Directions                  | 6              | Complete two: CPTC 103, ENG 202, ENG 231, ENG 232, ENG 235, ENG 236, ENG 237, ENG 240, ENG 241, ENG 280 | 6              |
| PPDI Past and Present Directions                  | 6              | Complete two: HISC 134, HUMC 142, HUMC 143  | 6              |
| SIDI Scientific Inquiry Directions                | 6-8            | Complete two: SCIC 101, SCIC 102, SCIC 103, SCIC 105, SCIC 111, SCIC 112, SCIC 115, SCIC 162            | 6-8            |
| SSDI Self and Society Directions                  | 6              | Complete two: CRJC 211, HSVC 110, HSVC 215, HUMC 140  | 6              |
| DICO Diversity Connection                         | 3              | CRJC 110, LNGC 105, LNGC 106, LNGC 120, LNGC 121, SOCC 101  | 3              |
| GACO Global Awareness Connection                  | 3              | ECOC 102, GEOC 101, HUMC 109, HUMC 110, HUMC 201, HUMC 245, LNGC 105, LNGC 106, SOCC 110                | 3              |
| WECO Wellness Connection                          | 3              | EDUC 103, SCIC 103, SCIC 112, SCIC 162  | 3-4            |
| Sub-total   | 60-62          | Sub-total   | 64-67          |

|   |        |
|---|--------|
| MA 2000 Introduction to Formal Mathematics (MATH)         | 3      |
| MA 3200 Discrete Mathematics                              | 3      |
| MA 4140 Abstract Algebra (WRCO)                           | 3      |
| MA 4430 Numerical Analysis (TECO)                         | 3      |
| MA 4510 Introduction to Analysis                          | 3      |
| Mathematics electives-complete 12 credits from following: | 12     |
| MA 3130 Directed Research in Mathematics                  |        |
| MA 3230 Geometries (TECO)(WRCO)                           |        |
| MA 3280 Regression Analysis                               |        |
| MA 3460 History of Mathematics (GACO)(WRCO)               |        |
| MA 4220 Topics in Mathematics                             |        |
| MA 4350 Probability Theory                                |        |
| Computer Science elective – complete one of following:    | 2-4    |
| CS 2370 Programming in Java                               |        |
| CS 2400 Scientific Programming                            |        |
| CS 2470 Systems Programming in C/C++                      |        |
| INCO Integration Connection                               | 3      |
| Electives   | *28-24 |
| Sub-total   | 60-58  |

Total required for the degree 120

The maximum number of transfer credits that can be applied to a PSU bachelor degree is 90.

\*three credits for IS 1111 The First Year Seminar become electives for transfer students entering with 24 or more credits

Students must receive a C- or better in all PSU mathematics courses required in their degree program. A grade of C- or better must be earned in any PSU mathematics prerequisite course before enrolling in the post-requisite course.

| <u>RVCC Courses Noted Above</u>  | <u>Credits</u> |
|--|----------------|
| CPTC 103 Web Site Design   | 3              |
| CRJC 110 Public Administration   | 3              |
| CRJC 211 Justice and the Community   | 3              |
| ECOC 102 Macroeconomics  | 3              |
| EDUC 103 Health, Safety, Nutrition for the Young Child                     | 3              |
| ENG 102 College Composition I  | 3              |
| ENG 201 College Composition II   | 3              |
| ENG 202 Meetinghouse Readings  | 3              |
| ENG 231 Reading Modern Poetry  | 3              |
| ENG 232 Reading Short Fiction  | 3              |
| ENG 235 Poetry Workshop  | 3              |
| ENG 236 Fiction Writing Workshop   | 3              |
| ENG 237 Advanced Poetry Writing Workshop                                   | 3              |
| ENG 240 American Literature to 1877  | 3              |
| ENG 241 American Literature: 1877 to Present                               | 3              |
| ENG 249 Sarah Josepha Hale Award Writers                                   | 3              |
| ENG 280 Nobel Literature Laureates   | 3              |
| GEOC 101 Introduction to Geography   | 3              |
| HISC 134 Topics in African History   | 3              |
| HSVC 110 Introduction to Human Services                                    | 3              |
| HSVC 215 Issues of Children and Families                                   | 3              |
| HUMC 109 Introduction to Philosophy  | 3              |
| HUMC 110 The Humanities in Western Culture                                 | 3              |
| HUMC 140 Myth in US Culture (20 <sup>th</sup> Century)                     | 3              |
| HUMC 142 Topics in United States History to 1877                           | 3              |
| HUMC 143 Topics in United States History:1877-Present                      | 3              |
| HUMC 201 The Making of the Modern World:<br>Themes in Western Civilization | 3              |
| HUMC 245 Native People:An Ethnohistorical Perspective                      | 3              |
| LNGC 105 Spanish I   | 3              |
| LNGC 106 Spanish II  | 3              |
| LNGC 120 Sign Language I   | 3              |
| LNGC 121 Sign Language II  | 3              |
| SCIC 101 Biology: Chemical/Cellular Basis of Life                          | 4              |
| SCIC 102 Biology: Adaptation, Evolution, Ecosystems                        | 4              |
| SCIC 103 Human Biology   | 4              |
| SCIC 105 Investigative Science   | 3              |
| SCIC 111 Anatomy and Physiology Essentials                                 | 4              |
| SCIC 112 Topics in Human Biology   | 4              |
| SCIC 115 Astronomy   | 4              |
| SCIC 162 Nutrition: The Science of Sustenance                              | 4              |
| SOCC 101 Introduction to Sociology   | 3              |
| SOCC 110 Cultural Anthropology   | 3              |

When RVCC courses are offered through their Academic Center in Keene, they are coded with a K (e.g., MTHC 115 would be MTHK 115).