## VCCS Math Course Transferability to Virginia Public Institutions

Updated 3.12.18

<table>
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<th>CNU</th>
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<th>GMU</th>
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Notes for Course Transfer Table

M = MATH or MTH as appropriate to college, S= STAT, A = APMA
ELEC = college credit awarded as an elective for college
* No direct match but meets general education mathematics/quantitative requirement
* Use of statistical package in graded activities/projects required for transfer.
* Courses must be above College Algebra to satisfy. (CNU MTH 110 does not satisfy Gen Ed requirements.)
* JMU – See program advisor for courses taken prior to entrance into JMU for possible course substitutions – determined by major department and only if meeting additional criteria. “Substitution” - an individual JMU course directive for a student indicating that the course may be used as an alternative to satisfy a particular requirement.

Possible Substitutions:
- MTH 280 College Geometry – sub for MATH 305
- MTH 281 Introductory Abstract Algebra – sub for MATH 304
- MTH 283 Probability and Statistics – sub for MATH 318
- MTH 289 Differential Equations Extended – sub for a math maj elect req

<sup>1</sup> Longwood – Satisfies Quantitative Reasoning Pillar
<sup>2</sup> Completed with either MA123-124 (Calc I/Calc II) for Applied Math, Chemistry, Engineering, and Physics majors or MA101-102 for all others.
<sup>3</sup> Future students may be required to pass ODU vector module prior to transfer credits awarded or completion of MTH 265.
<sup>4</sup> VCU School of Business for requirements, changes pending

Note: UVA does not have a general education requirement that is applicable to all students. In the College of Arts and Sciences, students currently have to complete 12 credits from two different departments to satisfy the Natural Sciences and Math area requirement. For Engineering, outside of the required math most majors require at least one additional upper-division math course.
## VCCS Math Course Transferability to Virginia Private Institutions

**Updated 3.12.18**

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<th>Liberty</th>
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<td>M151(^{E})</td>
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<td>M103</td>
<td>M181</td>
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<td>Mcred(^p)</td>
<td>M300U</td>
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<td>MTH 265 Calc III</td>
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<td>M900 (^{M})</td>
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<td>M307</td>
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<td>M300U</td>
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<td>MTH 267 Diff Equat</td>
<td>M3003</td>
<td>MELE</td>
<td>M332</td>
<td>M2xx</td>
<td>M301</td>
<td>M900 (^{M})</td>
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<td>Mcred(^p)</td>
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<td>MTH 280 Coll Geom</td>
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\(^{s}\) = Spring; \(^{w}\) = Fall; \(^{E}\) = Even; \(^{O}\) = Odd
<table>
<thead>
<tr>
<th>VCCS Math</th>
<th>Bluefield</th>
<th>Emory &amp; Henry</th>
<th>Ferrum</th>
<th>Liberty</th>
<th>Lynchburg</th>
<th>Marymount</th>
<th>Roanoke</th>
<th>Southern VA</th>
<th>Strayer</th>
<th>U of Phoenix</th>
<th>U of Richmond</th>
<th>VA Wesleyan</th>
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<tr>
<td>M281 Int Abst Alg</td>
<td>MGExx</td>
<td>MELE^{l1}</td>
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<td>M288 \textsuperscript{R1}</td>
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<td>M104</td>
<td>Mcred\textsuperscript{p}</td>
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<td>M283 Prob &amp; Stat</td>
<td>MGExx</td>
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<td>M311</td>
<td>M132</td>
<td>S202</td>
<td>M221</td>
<td>M300</td>
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<td>Mcred\textsuperscript{p}</td>
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<tr>
<td>M288 Discrete Mth</td>
<td>MGExx</td>
<td>M250</td>
<td>M260\textsuperscript{l2}</td>
<td>M901\textsuperscript{M}</td>
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<td>Mcred\textsuperscript{p}</td>
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<td>M289 Diff Equat Ext</td>
<td>MGExx</td>
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<td>MELE\textsuperscript{l1}</td>
<td>M900</td>
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<td>MEEE</td>
<td>M104</td>
<td>M104</td>
<td>Mcred\textsuperscript{p}</td>
<td>M300</td>
<td>M300</td>
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</table>

**Notes for Course Transfer Table (Private)**

\textsuperscript{M} = MATH or MTH as appropriate to college, \textsuperscript{S} = STAT, and \textsuperscript{Q} = QUAN

\textsuperscript{ELEC} = college credit awarded as an elective for college

MGExx – meets general education requirement for math

\textsuperscript{E} Emory & Henry requires department approval for transfer, pending student goals

\textsuperscript{l1} Lynchburg: Can transfer as math elective for math majors

\textsuperscript{l2} Will not receive “writing enriched” credit that LU course receives

\textsuperscript{M} MA 900 Math Elective - courses our equivalent to Marymount courses but are prerequisites for other courses in the major and we prefer to have a conversation with students when they transfer to make sure the version of the course they took was sufficient to meet the prerequisites for the subsequent course they will take.

\textsuperscript{M} MA 901 Math Elective with Liberal Arts Core credit

\textsuperscript{P} U of Phoenix requires 6 credits of math for general education requirements. All courses indicated by Mcred will satisfy the 6 credits of math needed.

\textsuperscript{R} MATH-T can substitute for our INQ 240 or INQ 241, and STAT-T can substitute for INQ 240

\textsuperscript{R1} Roanoke – see Dept. Chair to determine best transfer.

\textsuperscript{S} Strayer: Specified courses may vary based on concentration. MAT104 and MAT300 (MAT311 for BSIT) are requirements for all concentrations. MAT200 is a core requirement specific to BSIT.

\textsuperscript{W} VWC “Q” Requirement is 4 credits but can be satisfied by 3 credit transfer courses
VCCS Math Course applicability to degree programs.
This is a sampling of degrees as identified by the four year colleges during course evaluation to which the VCCS math courses apply. This is not a comprehensive list. Students and advisors should consult the degree programs at the four year colleges for specific degree requirements prior to selecting a math pathway.

<table>
<thead>
<tr>
<th>VCCS Math</th>
<th>Applicable Degree Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 154 QR</td>
<td>General education requirements for Mathematics and Quantitative Reasoning, non-Science majors (UVA-Wise, NSU), English (NSU), Psychology (NSU), Political Science (NSU), Schools of Liberal Arts, Social Work, and Education (NSU)</td>
</tr>
<tr>
<td>MTH 155 SR</td>
<td>General education requirements for Mathematics and Quantitative Reasoning, Statistics (VT), Mass Communications (VCU), nonSTEM (VMI)</td>
</tr>
<tr>
<td>MTH 245 Stat I</td>
<td>Political Science (JMU), Biology/Biological Sciences (JMU, VCU, CNU), Nursing (JMU, GMU, UVA-wise, NSU), Psychology (JMU, Longwood, GMU, CNU), Economics (JMU, GMU), Sociology (JMU, UMW, CNU), Health Science/Admin (JMU, GMU), Mathematics (LongW), Computer Science (LongW, UVA-Wise, NSU), Athletic Training (LongW), Sports Management (GMU), Business (LongW, UMW, CNU), Education Licensure (UMW), Statistics (VT), Life Science (VCU), Earth Science (GMU), nonSTEM (VMI), Natural Science (UVA-Wise), Allied Health (NSU), Medical Technology (NSU), BIO and CHEM Pre-Med (NSU)</td>
</tr>
<tr>
<td>MTH 246 Stat II</td>
<td>Business (LongW), Athletic Training (LongW), Economics (LongW, GMU), Mathematics (UMW, VCU), Statistics (VT, VCU), Data Analysis Minor (GMU)</td>
</tr>
<tr>
<td>MTH 161 PreCalc I</td>
<td>Serves as prereq to studies in Calculus and other courses, Liberal Studies (LongW), Science (UVA-Wise), Computer Science (UVA-Wise), Math (UVA-Wise), School of Business – certain majors and tracks (NSU)</td>
</tr>
<tr>
<td>MTH 162 Pre Calc II</td>
<td>Serves as prereq to studies in Calculus and other courses, STEM not Nursing (LongW, NSU), Biological Sciences (VCU, NSU), Natural Science (UVA-Wise), Computer Science (UVA-Wise, NSU), Math (UVA-Wise, NSU), Technology (NSU), Chemistry (NSU)</td>
</tr>
<tr>
<td>MTH 167 PreCalcTrig</td>
<td>Serves as prereq to studies in Calculus and other courses, STEM not Nursing (LongW, NSU), Biological Sciences (VCU, NSU), Natural Science (UVA-Wise), Computer Science (UVA-Wise, NSU), Math (UVA-Wise, NSU), Technology (NSU), Chemistry (NSU)</td>
</tr>
<tr>
<td>MTH 261 App Calc I</td>
<td>College of Business (except Quant Finance at JMU, VT, CNU), College of Agriculture and Life Sciences (VT), Biology (VT), Chemistry (BA only, VT), Geography (VT), Microbiology (VT), Psychology (VT), Neuroscience (VT), Applied Economics Management (Financial Planning option at VT), Food Science Technology (Food Business option at VT), ECBU and BI (VMI), Math (UVA-Wise), Natural Science (UVA-Wise), School of Business – certain majors and tracks (NSU)</td>
</tr>
<tr>
<td>MTH 262 App Calc II</td>
<td>College of Business (VT), College of Agriculture and Life Sciences (VT), Biology (VT), Chemistry (BA only, VT), Geography (VT), Microbiology (VT), Psychology (VT), Neuroscience (VT), Applied Economics Management (Financial Planning option at VT), Food Science Technology (Food Business option at VT), ECBU and BI (VMI), Math (UVA-Wise), Natural Science (UVA-Wise), School of Business – certain majors and tracks (NSU)</td>
</tr>
<tr>
<td>MTH 263 Calc I</td>
<td>Mathematics (JMU, UMW, VT, NSU), Chemistry (JMU, UMW, VT, NSU), Physics (JMU, UMW, VT, NSU), Biology (JMU), Engineering (JMU, VT, NSU), Quantitative Finance (JMU), Geology (JMU), Statistics (JMU), ISAT (JMU), STEM (except Nursing at LongW, VCU, Except organismal bio CNU), Economics (LongW), Computer Science (VT, NSU), Computational Modeling and Data Analytics (VT), Statistics (VT), STEM (VMI)</td>
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<tr>
<td>MTH 264 Calc II</td>
<td>Mathematics (JMU, UMW, VT, NSU), Chemistry (JMU, UMW, VT, NSU), Physics (JMU, UMW, VT, NSU), Biology (JMU), Engineering (JMU, VT, NSU), Quantitative Finance (JMU), Geology (JMU), Statistics (JMU), ISAT (JMU), STEM (except Nursing at LongW, VCU, except organismal bio CNU), Economics (LongW), Computer Science (VT, CNU, NSU), Computational Modeling and Data Analytics (VT), Statistics (VT), STEM (VMI)</td>
</tr>
<tr>
<td>MTH 265 Calc III</td>
<td>Mathematics (JMU, UMW, VT, CNU, NSU), Chemistry (JMU, UMW, VT, CNU, NSU), Physics (JMU, UMW, VT, CNU, NSU), Biology (JMU), Engineering (JMU, VT, CNU, NSU), Quantitative Finance (JMU), Geology (JMU), Statistics (JMU), ISAT (JMU), STEM (except Nursing at LongW, VCU), Economics (LongW), Computer Science (VT, NSU), Computational Modeling and Data Analytics (VT), Statistics (VT), STEM (VMI)</td>
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<tr>
<td>MTH 266 Linear Alg</td>
<td>Mathematics (JMU, LongW, UMW, VCU, NSU), Physics (JMU, VT), Engineering (JMU), Quantitative Finance (JMU), Statistics (JMU, VT), Computer Science (VT), Engineering (VT, VCU), Computational Modeling and Data Analytics (VT), STEM (VMI), Optical Engineering (NSU)</td>
</tr>
<tr>
<td>MTH 267 Diff Equat</td>
<td>Mathematics (JMU, UMW, VT, VCU, NSU), Physics (JMU, UMW, VT, NSU), Engineering (JMU, VT, VCU, NSU), Quantitative Finance (JMU), Chemistry (BS-VT), Computational Modeling and Data Analytics (VT), STEM (VMI)</td>
</tr>
</tbody>
</table>