TRANSFER ARTICULATION AGREEMENT

Quinsigamond Community College

And

Worcester Polytechnic Institute

(Updated 2018)

Engineering Associate in Science Degree

to

Admission to Bachelor of Science Degrees in Engineering
Worcester Polytechnic Institute (WPI) and Quinsigamond Community College (QCC) recognize that for some students, the path to a technical education may begin at a community college. To assist students who wish to pursue such an option, WPI and Quinsigamond Community College formalized this pattern by signing a transfer articulation agreement in 1989. This agreement was last updated in 2010.

The purpose of this document is to reaffirm/update that agreement based on a thorough review of the current courses taught in QCC’s Engineering associates degree program by the appropriate WPI department head/designee. Further reviews will be conducted tri-annually or when significant changes occur to the curriculum of either institution.

Under this agreement, the terms of which are described on the following pages, WPI agrees to accept students from QCC as sophomores or juniors depending on their programs of study in engineering.

Terms of Agreement

In this agreement between WPI and QCC, both institutions agree to the following items:

1. WPI agrees to refer potentially qualified students to QCC for pre-entrance course preparation as well as first year-level course work leading to eventual transfer to a four-year engineering program.

2. WPI agrees to accept as advanced sophomores all graduates of QCC who have completed the attached program of study and, upon proper application and the positive recommendation of the two-year college, have met the admissions qualifications as set forth by WPI’s Undergraduate Admissions Office. In general, all students with a 3.3 GPA or higher will be accepted from QCC. Students with grade-point averages below 3.3 will be considered on a case-by-case basis.

3. In addition, WPI agrees to accept all college-level courses within the QCC Engineering program curriculum as laid out in this articulation agreement, provided courses are completed with grades of “B” or higher. See Appendix A. Please note: WPI does not have a cap for the number of credits accepted. However, students have to meet a residency requirement of 72 credits (8 units, or two full academic years).

4. With careful planning, students completing the above requirements may be able to graduate from WPI in two and one-half years.

5. Faculty and administrative staff from both institutions should be encouraged to visit each other’s campuses and confer on matters of curriculum content and the program details.

6. The program will be promoted through each college’s website, academic catalog, and appropriate marketing materials.

7. This agreement is effective on the date of signature, and will continue in effect for three years from that date. Substantive changes in the courses or program of either institution will necessitate a review of the agreement. This agreement may be terminated or re-negotiated at the request of either institution given due protection to those students enrolled at either institution who expect to pursue this plan of study.
Institutional Approvals

Dr. Luis G. Pedraja  
President  
Quinsigamond Community College

Dr. Laurie Leshin  
President  
Worcester Polytechnic Institute

Dr. Nancy Schoenfeld  
Interim Vice President of Academic Affairs  
Quinsigamond Community College

Dr. Bruce Burstyn  
Provost  
Worcester Polytechnic Institute

Kathleen Rentsch  
Dean, School of Business, Engineering & Technology  
Quinsigamond Community College

Dr. Art Heinricher  
Dean of Undergraduate Studies  
Worcester Polytechnic Institute

Dadbeh Bigonahy  
Professor of Engineering and Sciences  
Quinsigamond Community College

Dr. Oluwole Soboyejo  
Dean of Engineering  
Worcester Polytechnic Institute

Daniel de la Torre  
Coordinator of Transfer & Articulation  
Quinsigamond Community College

Julie Chapman  
Director of Recruitment Partnerships  
Worcester Polytechnic Institute

Confirmed date of agreement signed by all parties: 5/1/2018
Initials: (signature)
## QCC Courses

### Chemistry
- CHM 123
- CHM 124
- CHM 123 & 124

### Computer Science
- CSC 221

### Engineering
- ERG 101
- ERG 211
- ERG 221
- ERG 223
- ERG 225

### Mathematics
- MAT 233
- MAT 234
- MAT 235
- MAT 233, 234
- MAT 233, 234, 235
- MAT 237
- MAT 238
- MAT 243

Special Note:
*All Math courses, with the exception of MAT 243, require a grade of "B" or better to transfer. A "C" or better is required for MAT 243.*

### Physics
- PHY 105
- PHY 106
- PHY 205

### Humanities and Arts
- ENG 101
- ENG 102

### WPI Equivalent

- CH 1010 Chemical Properties, Bonding, & Forces
- CH 1030 Kinetics, Equilibrium & Thermodynamics
- CH 1010 Chemical Properties, Bonding, & Forces; CH 1020 Chemical Reactions, & 1030 Kinetics, Equilibrium & Thermodynamics

- ES 1310 Engineering Graphics
- ES 2001 Introduction to Materials Science
- ES 2501 Introduction to Static Systems
- ES 3001 Introduction to Thermodynamics
- ES 2502 Stress Analysis or CE 2001 Analytical Mechanics

- MA 1021 Calculus I
- MA 1022 Calculus II
- MA 1024 Calculus IV
- MA 1021-1023 Calculus I-III
- MA 1021-1024 Calculus I-IV
- MA 2611 Applied Statistics I
- MA 2051 Ordinary Differential Equations
- MA 2071 Matrices and Linear Algebra

PH 1110 General Physics - Mechanics
PH 1000 General Physics elective credit
PH 1120 General Physics – Electricity & Magnetism

### WR 1010 Elements of Writing
EN 1251 Introduction to Literature

In addition to the above, courses taken in the subjects below* will transfer towards the Humanities and Arts requirement at WPI. Please note that only courses taken at the 100 level or higher are approved for transfer. In addition, students can only transfer elementary level language courses if they plan to fulfill the WPI Humanities and Arts requirement in that foreign language. Please note: All courses require a grade of “B” or better to transfer.

*Art, Arabic, Mandarin, English, German, History, Humanities, Music, Philosophy, Religion, Spanish, and Theatre

### Social Sciences
The social science courses are not included in the articulation agreement and will be evaluated on an individual basis.
# QCC to WPI Engineering Articulation Agreement

<table>
<thead>
<tr>
<th>QCC Course #</th>
<th>QCC Course Title</th>
<th>WPI Course #</th>
<th>WPI Course Title</th>
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<tbody>
<tr>
<td>Semester 1</td>
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<tr>
<td>CHM 123</td>
<td>Principles Of Chemistry for Engineers I</td>
<td>CH 1010</td>
<td>Molecularity*</td>
</tr>
<tr>
<td>CSC 221</td>
<td>C++ for Scientists &amp; Engineers</td>
<td>CS 1000</td>
<td>General Elective</td>
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<tr>
<td>ENG 101</td>
<td>Composition I</td>
<td>WR 1010</td>
<td>Elements of Writing</td>
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<tr>
<td>ERG 101</td>
<td>Engineering Graphics</td>
<td>ES 1310</td>
<td>Introduction to Computer Aided Design</td>
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<tr>
<td>MAT 233</td>
<td>Calculus I</td>
<td>MA 1021</td>
<td>Calculus I **</td>
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<td>Semester 2</td>
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<tr>
<td>CHM 124</td>
<td>Principles of Chemistry for Engineers II</td>
<td>CH 1030</td>
<td>Equilibrium*</td>
</tr>
<tr>
<td>ENG 102</td>
<td>Composition II</td>
<td>EN 1251</td>
<td>Introduction to Literature</td>
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<tr>
<td>MAT 234</td>
<td>Calculus II</td>
<td>MA 1022</td>
<td>Calculus II **</td>
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<tr>
<td>PHY 105</td>
<td>General Physics I</td>
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<td>General Physics—Mechanics</td>
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<td>***</td>
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<td>Semester 3</td>
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<tr>
<td>ERG 211</td>
<td>Introduction to Materials Science</td>
<td>ES 2001</td>
<td>Introduction to Materials Science</td>
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<tr>
<td>ERG 221</td>
<td>Statics</td>
<td>ES 2501</td>
<td>Introduction to Static Systems</td>
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<tr>
<td>MAT 235</td>
<td>Calculus III</td>
<td>MA 1024</td>
<td>Calculus IV **</td>
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<tr>
<td>MAT 237</td>
<td>Probability and Statistics for Engineers &amp; Scientists</td>
<td>MA 2611</td>
<td>Applied Statistics I</td>
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<tr>
<td>PHY 106</td>
<td>General Physics II</td>
<td>PH 1000</td>
<td>General Elective</td>
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<td>Semester 4</td>
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<tr>
<td>ERG 223</td>
<td>Thermodynamics</td>
<td>ES 3001</td>
<td>Introduction to Thermodynamics</td>
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<tr>
<td>ERG 225</td>
<td>Strength of Materials</td>
<td>ES 2502</td>
<td>Stress Analysis</td>
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<tr>
<td>MAT 243</td>
<td>Linear Algebra</td>
<td>MA 2071</td>
<td>Matrices and Linear Algebra I</td>
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<tr>
<td>PHY 205</td>
<td>General Physics III</td>
<td>PH 1120</td>
<td>General Physics—Electricity and Magnetism</td>
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*Earning a B or better in both CHM 123 and CHM 124 at QCC will result in the receiving transfer credit for CH 1010, CH 1020, and CH 1030 at WPI.

**Earning a B or better in all courses of the calculus series at QCC (MAT 233, MAT 234, and MAT 235) will result in receiving transfer credit for MA 1021, MA 1022, MA 1023, and MA 1024 at WPI.

***The Social Science elective is not included in the articulation agreement and will be evaluated on an individual basis.