TRANSFER AGREEMENT
between
IVY TECH COMMUNITY COLLEGE STATEWIDE
and
INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS

For Transfer of Ivy Tech Community College’s Associate of Science in Electrical Engineering Technology to Indiana University-Purdue University Indianapolis Bachelor of Science in Computer Engineering Technology or Electrical Engineering Technology

Statement of Purpose
The purpose of this transfer agreement is to provide a basis for a cooperative relationship between IUPUI and Ivy Tech Community College (ITCC) to benefit students who desire to complete a bachelor’s degree. The intent is for ITCC students completing the AS degree program to move seamlessly to the BS degree program.

Transfer Agreement
Ivy Tech Community College graduates from the appended Associate of Science degree program of study in Electrical Engineering Technology from any Ivy Tech campus may transfer and apply up to 64 credit hours from that completed degree to the requirements for IUPUI Bachelor of Science degree in Computer Engineering Technology or Electrical Engineering Technology.

Addendum One: Ivy Tech Community College Curriculum
Includes transfer General Education Core Requirements and Associate of Science Course Requirements

Addendum Two: Course Requirements for Transfer
Details the course requirements for this transfer agreement, including remaining courses required at IUPUI to fulfill the baccalaureate degree requirements. Also includes a sample semester sequence.

Additionally, under the terms of this agreement:

1. Ivy Tech students are eligible for admission with junior standing to IUPUI provided:
   a. The student has submitted a complete application for admission to IUPUI.
   b. The student has earned a course grade of “C” or better on every course accepted for transfer.
   c. The student has a 2.0 or higher grade point average on a 4-point scale.

2. As ITCC graduates complete the credit hour requirements for the award of the BS degrees in Computer Engineering Technology or Electrical Engineering Technology, they must meet the graduation requirements as approved by IUPUI at the time of the student’s admission to the appropriate program.

3. This Articulation Agreement shall be in effect for four (4) academic years from the date of signing. However, written notice of intention to terminate, modify, or withdraw from this agreement may be submitted by the academic head of either institution at least one academic semester prior to the proposed date of termination/withdrawal. Should a decision be made to modify or dissolve this agreement, students who are already attending IUPUI at the time will be permitted to continue as long as their academic performance remains in good standing.

4. Recognizing that changes in curricula and course content are inevitable, each institution agrees to discuss with the other institution all curriculum changes affecting this agreement before the changes are implemented. The corresponding program chairs from each institution will meet annually to review the curricula and the agreement. The agreement may be amended for curriculum changes if both parties agree.
Agreed to __________________________ (date) by the undersigned:

Ivy Tech Community College

Yearl Turnpaugh
Assistant Vice President for
Career and Technical Education

Indiana University-Purdue University Indianapolis

Elaine Cooney
Chair, Department of Engineering Technology

Mary Ostryé, Ph.D.
Provost and Senior Vice President
of Academic Affairs

Wanda L. Worley, Ph.D.
Assoc. Dean for Adv. Affairs & Undergraduate Programs
School of Engineering and Technology

David Russomanno, Ph.D.
Dean
School of Engineering and Technology

Nasser H. Paydar, Ph.D.
Executive Vice Chancellor and Chief Academic Officer
Addendum One: Ivy Tech Community College Curriculum

Electrical Engineering Technology Program
Associate of Science
2013-2014
Statewide (Transfer Cluster varies by Region; Central Indiana Region shown here)

The following suggested sequence includes all course requirements for this degree. You must consult with an academic advisor to determine which Transfer Cluster Electives should be chosen to receive credit at the receiving university.

<table>
<thead>
<tr>
<th>General Education Core</th>
<th>32 Credits</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111 English Composition</td>
<td>3</td>
<td>ENGL 025+093 or ENGL 032+032</td>
<td></td>
</tr>
<tr>
<td>COMM 101 Fundamentals of Public Speaking</td>
<td>3</td>
<td>ENGL 025+093 or ENGL 032+032</td>
<td></td>
</tr>
<tr>
<td>MATH 136 College Algebra</td>
<td>3</td>
<td>MATH 035 or 043 or 111 or assessment</td>
<td></td>
</tr>
<tr>
<td>MATH 137 Trigonometry &amp; Analytic Geometry</td>
<td>3</td>
<td>MATH 035 or 043 or 111 or assessment</td>
<td></td>
</tr>
<tr>
<td>MATH 221 Calculus for Technology I</td>
<td>3</td>
<td>MATH 136+137</td>
<td></td>
</tr>
<tr>
<td>MATH 222 Calculus for Technology II</td>
<td>3</td>
<td>MATH221</td>
<td></td>
</tr>
<tr>
<td>PHYS 101 Physics 1</td>
<td>4</td>
<td>MATH 121 or 131 or 137 (Trigonometry)</td>
<td></td>
</tr>
<tr>
<td>CHEM 111 Chemistry 1</td>
<td>4</td>
<td>MATH 035 or 043 or 111 or assessment</td>
<td></td>
</tr>
<tr>
<td>XXX XXX Humanities Elective (from approved list)</td>
<td>3</td>
<td>See appropriate course description</td>
<td></td>
</tr>
<tr>
<td>XXX XXX Social Science Elective (from approved list)</td>
<td>3</td>
<td>See appropriate course description</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institutional Requirements</th>
<th>2-4 Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>IVT XXX Life Skills Elective</td>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>EETC 279 Capstone Course</td>
<td>1</td>
<td>Approval of Program Chair</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technical Core*</th>
<th>15 Credits</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECT 111 Intro. to Circuit Analysis</td>
<td>4</td>
<td>MATH 035 or 043 or Assessment</td>
<td></td>
</tr>
<tr>
<td>EECT 112 Digital Fundamentals</td>
<td>3</td>
<td>MATH 015, 023, or 050 or Assessment</td>
<td></td>
</tr>
<tr>
<td>EECT 121 Electronics Circuits Analysis</td>
<td>4</td>
<td>EECT 111 Recommend MATH137 also</td>
<td></td>
</tr>
<tr>
<td>EECT 122 Digital Applications</td>
<td>4</td>
<td>EECT 112</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer Cluster* (for IUPUI)</th>
<th>13 Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>METC 105 Intro. to Engineering Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>EECT 128 Introduction to C Programming</td>
<td>3</td>
<td>MATH 015/023/050 or assessment, EECT 112</td>
</tr>
<tr>
<td>EECT 222 Introduction to Microcontrollers</td>
<td>4</td>
<td>EECT 122 &amp; EECT 128</td>
</tr>
<tr>
<td>EECT 229 Networks and Telecommunications</td>
<td>3</td>
<td>EECT 112</td>
</tr>
</tbody>
</table>

TOTAL CREDITS required | 62 |

Notes:
* Labs associated with PHYS 101 and all technical/core/applied courses should be taken in a face-to-face course delivery format.

Classes required in prior academic year curricula, now recommended but no longer required, are DESN103, EECT209, EECT213, EECT223, EECT226, and ENGL 211.

The number of Transferable General Education Core (TGEC) elective courses shown above may vary based on required TGEC course credits earned, area of study, and the student’s Individual Academic Plan. The remaining degree requirements provide a mechanism for students to obtain the required minimum 62 credits to graduate with the appropriate Associate level transfer degree.
Addendum One: Ivy Tech Community College Curriculum (continued)

Ivy Tech Community College Electrical Engineering Technology Program
Associate of Science Degree

Suggested Course Sequence by Semester

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IVYT 1xx</td>
<td></td>
</tr>
<tr>
<td>Life Skills Elective</td>
<td>1-3</td>
</tr>
<tr>
<td>EECT 111</td>
<td></td>
</tr>
<tr>
<td>Introduction to Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111</td>
<td></td>
</tr>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MATH 136</td>
<td></td>
</tr>
<tr>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>METC 105</td>
<td></td>
</tr>
<tr>
<td>Intro to Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>14-16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM101</td>
<td></td>
</tr>
<tr>
<td>Fund. of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>EECT 112</td>
<td></td>
</tr>
<tr>
<td>Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>EECT 121</td>
<td></td>
</tr>
<tr>
<td>Electronics Circuits Analysis</td>
<td>4</td>
</tr>
<tr>
<td>XXX xxx</td>
<td></td>
</tr>
<tr>
<td>Soc Sci, or Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>MATH 137</td>
<td></td>
</tr>
<tr>
<td>Trig. and Analytic Geometry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECT 122</td>
<td></td>
</tr>
<tr>
<td>Digital Applications</td>
<td>4</td>
</tr>
<tr>
<td>EECT 128</td>
<td></td>
</tr>
<tr>
<td>Intro to C Programming</td>
<td>3</td>
</tr>
<tr>
<td>XXX xxx</td>
<td></td>
</tr>
<tr>
<td>Soc Sci, or Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221</td>
<td></td>
</tr>
<tr>
<td>Calculus for Technology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101*</td>
<td></td>
</tr>
<tr>
<td>Physics 1 (face to face class)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 4</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECT 222</td>
<td></td>
</tr>
<tr>
<td>Introduction to Microcontrollers</td>
<td>4</td>
</tr>
<tr>
<td>EECT 229</td>
<td></td>
</tr>
<tr>
<td>Networks and Telecommunication</td>
<td>3</td>
</tr>
<tr>
<td>EETC 279</td>
<td></td>
</tr>
<tr>
<td>Capstone Course</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 111</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 222</td>
<td></td>
</tr>
<tr>
<td>Calculus for Tech 2 (Gen Ed Elective)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
### General Education (32 credits)

<table>
<thead>
<tr>
<th>IVY TECH Course</th>
<th>Credits</th>
<th>IUPUI Course</th>
<th>Cred.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111 English Composition</td>
<td>3</td>
<td>ENG-W 131 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Fundamentals of Public Speaking</td>
<td>3</td>
<td>COM-R 110 Fund. of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH 136 College Algebra</td>
<td>3</td>
<td>MATH 15300* Algebra &amp; Trigonometry 1 (MATH 15300 not part of BS-EET, but credits count as fulfilling Gen Ed Common Core)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 137 Trigonometry &amp; Analytic Geometry</td>
<td>3</td>
<td>MATH 15400 Algebra &amp; Trigonometry 2 (MATH15400 not part of BS-EET, but credits count as Math/Tech Selective)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221 Calculus for Technology</td>
<td>3</td>
<td>MATH 22100 Calculus for Technology 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 222 Calculus for Technology 2</td>
<td>3</td>
<td>MATH 22200 Calculus for Technology 2</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101* Physics 1</td>
<td>4</td>
<td>PHYS 21800 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 111 Chemistry 1</td>
<td>4</td>
<td>CHEM-C 101 Elementary Chemistry 1 (Lecture)</td>
<td>3</td>
</tr>
<tr>
<td>XXX xxx Humanities Elective</td>
<td>3</td>
<td>XXX xxxxx Humanities/Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>XXX xxx Social Science Elective</td>
<td>3</td>
<td>XXX xxxxx Humanities/Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
<td></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

### Institutional Requirements (2-4 credits)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Course Code</th>
<th>Description</th>
<th>Cred.</th>
</tr>
</thead>
<tbody>
<tr>
<td>IVYT 1xx Student Success</td>
<td>1-3</td>
<td>TECH 10200</td>
<td>Discovering Technology</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 279 Capstone Course</td>
<td><strong>1</strong></td>
<td></td>
<td></td>
<td><strong>1</strong></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2-4</strong></td>
<td></td>
<td></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

### Technical Core 2 (15 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECT 111</td>
<td>Intro. to Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>EECT 112</td>
<td>Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>EECT 121</td>
<td>Electronics Circuits Analysis</td>
<td>4</td>
</tr>
<tr>
<td>EECT 122</td>
<td>Digital Applications</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Transfer Cluster 2 (13 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>METC 105</td>
<td>Intro. to Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>EECT 128</td>
<td>Introduction to C++ Programming</td>
<td>3</td>
</tr>
<tr>
<td>EECT 222</td>
<td>Introduction to Microcontrollers</td>
<td>4</td>
</tr>
<tr>
<td>EECT 229</td>
<td>Networks and Telecommunications</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**Notes:**

*The 3 credits of MATH 136 transfer to IUPUI as MATH 15300 and fulfill the Gen Ed Common Core requirement. However, MATH 15300 is not required for the EET BS degree.*

**IUPUI to award 4-credit equivalent of ECET 28400 for combination of EECT 229 (3cr) + EECT 279 (1cr) Capstone

1. Labs associated with PHYS 101 and all technical/core/applied courses should be taken in a face-to-face course delivery format.
Sample Semester Sequence of Remaining Course Requirements
IUPUI BS-EET Degree

<table>
<thead>
<tr>
<th>Bachelor of Science in Electrical Engineering Technology</th>
<th>Semester 5 (17 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Title</td>
<td>Credit</td>
</tr>
<tr>
<td>ECET 20700 AC Electronics Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECET 23100 Electrical Power and Controls</td>
<td>4</td>
</tr>
<tr>
<td>TCM 22000 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>IET 15000 Quantitative Methods for Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 104 Tech Graphics Comm</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 6 (16 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECET 30700 Analog Network Signal Processing</td>
</tr>
<tr>
<td>ECET Elec 1 Elective, see approved course list</td>
</tr>
<tr>
<td>ECET Elec 2 Elective, see approved course list</td>
</tr>
<tr>
<td>IET 35000 Engineering Econ</td>
</tr>
<tr>
<td>BUS X-100 Intro to Business Administration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 7 (14 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECET 49000 Senior Design Project Phase 1</td>
<td>1</td>
</tr>
<tr>
<td>TCM 4xx (oral &amp; written design reports)</td>
<td>1</td>
</tr>
<tr>
<td>ECET Elec 3 Elective, see approved course list</td>
<td>3</td>
</tr>
<tr>
<td>ECET Elec 4 Elective, see approved course list</td>
<td>3</td>
</tr>
<tr>
<td>IET 36400 Total Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>Tech Elec 1 Elective, see approved course list</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 8 (16 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ECET 49100 Senior Design Project Phase II</td>
<td>2</td>
</tr>
<tr>
<td>TCM 4xx (oral &amp; written design reports)</td>
<td>1</td>
</tr>
<tr>
<td>ECET 49300 Ethics and Professionalism in Tech</td>
<td>1</td>
</tr>
<tr>
<td>Tech Elec 2 Elective, see approved course list</td>
<td>3</td>
</tr>
<tr>
<td>Sustain Sel Elective, see approved course list</td>
<td>3</td>
</tr>
<tr>
<td>ECET Elec 5 Elective, see approved course list</td>
<td>3</td>
</tr>
<tr>
<td>Gen Ed Elec Elective, see approved course list</td>
<td>3</td>
</tr>
</tbody>
</table>

Total IUPUI Credits 63
BS EET Awarded with Total Credits 120
Sample Semester Sequence of Remaining Course Requirements  
IUPUI BS-CpET Degree

<table>
<thead>
<tr>
<th>Bachelor of Science in Computer Engineering Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 5 (17 credits)</td>
</tr>
<tr>
<td>Course Title</td>
</tr>
<tr>
<td>ECET 35700 Real-Time Digital Signal Processing</td>
</tr>
<tr>
<td>ECET 23100 Electrical Power and Controls</td>
</tr>
<tr>
<td>TCM 22000 Technical Report Writing</td>
</tr>
<tr>
<td>ECET Elec 1 Elective, see approved course list</td>
</tr>
<tr>
<td>CIT 27000 Java Programming</td>
</tr>
</tbody>
</table>

| Semester 6 (16 credits)                                |
| IET 15000 Quantitative Methods for Technology         | 3 |
| ECET 48400 Emerging Info Communications and Technology| 4 |
| ECET Elec2 Elective, see approved course list         | 3 |
| ECET Elec3 Elective, see approved course list         | 3 |
| CIT 21400 Introduction to Data Management             | 3 |

| Semester 7 (14 credits)                                |
| ECET 49000 Senior Design Project Phase 1              | 1 |
| TCM 4xx (oral & written design reports)               | 1 |
| CIT 20300 Information Security Fundamentals           | 3 |
| ECET Elec4 Elective, see approved course list         | 3 |
| IET 36400 Total Quality Control                       | 3 |
| TECH 104 Tech Graphics                               | 3 |

| Semester 8 (16 credits)                                |
| ECET 49100 Senior Design Project Phase II             | 2 |
| TCM 4xx (oral & written design reports)               | 1 |
| ECET 49300 Ethics and Professionalism in Tech        | 1 |
| ECET Elec5 Elective, see approved course list         | 3 |
| BUS X-100 Intro to Business Administration            | 3 |
| Sustain Sel See approved course list                  | 3 |
| Gen Ed Elec Elective, see approved course list        | 3 |

**Total IUPUI Credits 63**

BS CpET Awarded with Total Credits 120