**Temple University College of Engineering**
**Associate in Applied Science in Electronics Technology at Northampton Community College to the Bachelor of Science in Engineering Technology at Temple University, Lehigh Carbon Community College Campus**
**(Effective Fall 2010)**

| Northampton Community College (NCC) Recommended Course | | | Temple University Equivalent | |
|---|---|---|---|---|
| *First Semester* | | *Credits* | *First Semester* | |
| ELEC 101 | DC/AC Circuit Analysis I | 4 | EET 2112 & 2113 | Elements of EET I (DC Circuits) and Lab See Note 1 |
| ELEC 121 | Technical Computer Appl | 2 | ET L000 | Elective (ENGR 1101) See Note 1,2 |
| ELEC 177 | Electronics Manufact I | 2 | ET L001 | Technical Elective |
| ENGL 101 | English I | 3 | ENGL 0802 | Analytical Reading & Writing |
| MATH 140 | College Algebra | 3 | MATH 1021 | College Algebra |
| | General Education Elective | 3 | | Dependent on Selection See Note 3 |
| *Second Semester* | | | *Second Semester* | |
| CMTH 102 | Speech Communication | 3 | AOD 1166 | Interpersonal Communication See Note 1,4 |
| ELEC 126 | Digital Electronics I | 3 | EET 3276 | Digital Logic Circuits |
| ELEC 151 | DC/AC Circuit Analysis II | 4 | EET 2122 | Elements of EET II (AC Circuits) See Note 1 |
| ELEC 155 | Intro to Solid State Devices | 2 | ET L002 | Technical Elective |
| EMEC 115 | Mechanical Skills for Tech | 1 | ET L003 | Technical Elective |
| ENGL 151 | English II | 3 | ENGL 2796 | Writing the Research Essay See Note 1,5 |
| | | | | |
| *Third Semester* | | | *Third Semester* | |
| ELEC 207 | Solid State Circuits | 4 | ET L004 | Technical Elective |
| ELEC 208 | Digital Electronics II | 3 | ET L005 | Technical Elective |
| ENGG 100 | Engineering Graphics | 3 | ET L006 | Technical Elective |
| PHYS 101 | Physics I | 4 | PHYS 1021 | Intro to General Physics See Note 1 |
| | or CHEM 120 | | or CHEM 1031/1033 | General Chemistry I and Lab I See Note 1 |
| | | | | |
| *Fourth Semester* | | | *Fourth Semester* | |
| ELEC 226 | Microprocessors I | 3 | EET 3277 | Microcomputer Systems |
| ELEC 230 | Team Project-Rec Sub EMEC 105 Fluid Power | 2 | ET L007 | Technical Elective |
| ELEC 232 | Linear Integrated Circuits | 4 | ET L008 | Technical Elective |
| | General Education Elective | 3 | | Dependent on Selection See Note 3 |
| | Elective | 3 | | Dependent on Selection See Note 3 |
| | | | | |
| | Total credits taken | 62 | | Total credits transferred 62 |

Notes:

1. Course satisfies a major requirement at Temple.
2. Temple's College of Engineering will accept by DARS exception NCC ELEC 121to fulfill the required ENGR 1101.
3. It is recommended that students work with their NCC transfer counselor to select a course for the 45+ Gen Ed for their NCC electives. Students choosing other electives may need additional courses at Temple to complete the 45+ Gen Ed requirements. Transfer credits with Core designations will satisfy General Education requirements. Students cannot use the same course to fulfill a General Education and a major or minor requirement. Transfer courses with Core designations will be applied to major requirements first and then to GenEd.
4. Temple's College of Engineering will accept by DARS exception NCC CMTH 102 to fulfill the required STOC 1111.
5. Temple's College of Engineering will accept by DARS exception NCC ENGL 151 to fulfill the required English 2696.
6. Temple's College of Engineering will waive by DARS exception the ENVT 1015 requirement for NCC students transferring with an Associate in Applied Science in Electronics Technology.

| Additional requirements at Northampton CC for Temple BSET | | |
|---|---|---|
| | | *Credits* |
| MATH 145 | Trigonometry | 3 |
| MATH 160 | Pre-Calculus | 4 |
| MATH 180 | Calculus I | 4 |
| MATH 181 | Calculus II | 4 |
| MATH 150 | Introductory Statistics | 3 |
| CHEM 120 | General Chemistry I | 4 |
| or PHYS 101 | Physics I | |
| PHYS 151 | Physics II | 4 |
| ENGG 115 | Computer Aided Design I | 3 |
| ENGG 201 | Statics | 3 |
| CISC 115 | Computer Science I | 4 |
| 45+ Gen Ed | Gen Ed Arts (GA) or Gen Ed US Society (GU) or Gen Ed Human Behavior (GB) See Note A, B | 3 |
| 45+ Gen Ed | Gen Ed Arts (GA) or Gen Ed US Society (GU) or Gen Ed Human Behavior (GB) See Note A,,B | 3 |
| 45+ Gen Ed | Gen Ed World Society (GG) See Note A | 3 |
| 45+ Gen Ed | Gen Ed Race and Diversity(GD) See Note A | 3 |
| 45+ Gen Ed | IH 0851 Mosaic I (GY) or IH 0852 Mosaic II (GZ) See Note A,C | (3-6) |
| | **Additional NCC Requirements** | **42-54** |

Notes

A. Careful selection of Electives in the NCC AAS degree program may eliminate some of these requirements. Transfer credits with Core designations will satisfy General Education requirements. Students cannot use the same course to fulfill a General Education and a major or minor requirement. Transfer courses with Core designations will be applied to major requirements first and then to GenEd.

B. 45+ Gen Ed students need one course each in two of these areas: US Society (GU), Arts (GA), or Human Behavior (GB).

C. The 45+ Mosaic requirement can be satisfied by transferring an approved combination of two courses from the Mosaic Transfer Guide. One, but not more than one, of the courses selected for a Mosaic combination may also be used to fulfill a second GenEd area. For example a student the combination of NCC's Philosophy 201 and History 103 to meet the 45+ Mosaic requirement can also use the History 103 to fulfill their GenEd World Society requirement. Students should check with their NCC transfer advisor for a current list of courses.

| Remaining requirements at Temple University, LCCC Campus | | |
|---|---|---|
| | | *Credits* |
| ENGR 3096 | Economic Analysis | 3 |
| ET 3396 | Materials Technology | 3 |
| ET 2322 | Strength of Materials | 3 |
| ET 3323 | Dynamics | 3 |
| ET 2521 | Applied Fluid Mechanics | 3 |
| | or Temple technical elective (ET4129 or ET4642) if Fluid Power is taken at NCC | |
| ET 3652 | CAD/CAM/CNC | 3 |
| ET 4342 | Machine Elements | 3 |
| ET 3651 | Manufacturing Control Systems | 3 |
| ET 4671 | Computer Integrated Manufacturing | 3 |
| ET 4161 | Capstone Project | 3 |
| | | |
| | **Remaining Temple Requirements** | **30** |
| Note: 30 of the last 45 credits of the degree must be completed as a matriculated Temple student to meet Temple's residency requirement. | | |

General Degree Notes:

I. The degree minimum requirement is 124 s.h. Assuming no remedial or repeat coursework is required the student completes the remaining coursework listed above at Temple.

II. The student completing the NCC and Temple courses and requirements specified on pages 4, 5 and 6 of this agreement will meet all requirements for graduation with the Bachelors of Science in Engineering Technology BSET degree from Temple:
   a. 24 s.h. of Math/Sciences
   b. 67 s.h. of Engineering Technology
   c. 19 s.h. of General Education for 45+ transfer status
   d. 124 s.h. minimum of course work

III. All required Mathematics and Statistics courses for the BSET must be completed at NCC prior to attending Temple University. Students who wish to take additional math courses at Temple must take the math placement test and then follow the recommenced sequence.

IV. To find the online application:
   a. Go to www.temple.edu/undergrad
   b. Click on "Applying" on the gray bar across the top
   c. Click on "Transfer Students" on the left hand side - This will take you to an online application

V. All inquiries about the undergraduate program and application are handled through the Office of Undergraduate Admissions. If you have specific questions about your application or the admission process, please call 215-204-7200. Inquiries about the **Bachelors of Science in Engineering Technology** program or specific course requirements can be directed to College of Engineering, Dr. David Reiser, 610-799-1096, david.reiser@temple.edu or Dr. Steven Ridenour, 215-204-8825, steven.ridenour@temple.edu.