New York City College of Technology, CUNY

CURRICULUM MODIFICATION PROPOSAL FORM

This form is used for all curriculum modification proposals. See the [Proposal Classification Chart](http://www.300jaystreet.com/college-council/resources/2010/04/2013-10-09-Proposal_Classification_Chart.docx) for information about what types of modifications are major or minor. Completed proposals should be emailed to the Curriculum Committee chair.

|  |  |
| --- | --- |
| **Title of Proposal** | Modification of Existing Courses offered by the ETET Dept. |
| **Date** | 3/25/2015 |
| **Major or Minor** | Minor |
| **Proposer’s Name** | Zory Marantz |
| **Department** | ETET |
| **Date of Departmental Meeting in which proposal was approved** | 03/10/2015 |
| **Department Chair Name** | Mohammed Razani |
| **Department Chair Signature and Date** |  |
| **Academic Dean Name** | Kevin Hom |
| **Academic Dean Signature and Date** |  |
| **Brief Description of Proposal**  (Describe the modifications contained within this proposal in a succinct summary. More detailed content will be provided in the proposal body. | To change various pre/-co-requisites of ETET courses to provide more flexibility and guidance for students entering the ET BT and TCET BT programs. |
| **Brief Rationale for Proposal**  (Provide a concise summary of why this proposed change is important to the department. More detailed content will be provided in the proposal body). | Modification of pre-/co-requisites to enable more versatility for students to take various courses without being penalized for taking advanced courses and that a specific sequence is followed to guarantee students’ preparedness for the materials being taught. |
| **Proposal History**  (Please provide history of this proposal: is this a resubmission? An updated version? This may most easily be expressed as a list). |  |

Please include all appropriate documentation as indicated in the Curriculum Modification Checklist.

For each new course, please also complete the New Course Proposal and submit in this document.

Please submit this document as a single .doc or .rtf format. If some documents are unable to be converted to .doc, then please provide all documents archived into a single .zip file.

**ALL PROPOSAL CHECK LIST**

|  |  |
| --- | --- |
| Completed CURRICULUM MODIFICATION FORM including: |  |
| * Brief description of proposal | ✓ |
| * Rationale for proposal | ✓ |
| * Date of department meeting approving the modification | ✓ |
| * Chair’s Signature | ✓ |
| * Dean’s Signature | ✓ |
| Evidence of consultation with affected departments  List of the programs that use this course as required or elective, and courses that use this as a prerequisite. | ✓ |
| Documentation of Advisory Commission views (if applicable). | NA |
| Completed [Chancellor’s Report Form](http://www.300jaystreet.com/college-council/resources/2010/04/2013-10-09-Chancellor_Report_Quick_Reference_Guide.doc). | ✓ |

**EXISTING PROGRAM MODIFICATION PROPOSALS**

|  |  |
| --- | --- |
| Documentation indicating core curriculum requirements have been met for new programs/options or program changes. |  |
| Detailed Rationale for each modification (this includes minor modifications) | ✓ |

**Rationale for proposal**

The ET BT program is now in its fourth semester and in the process we have been observing various issues that the students have been having during their registration process. The solution to those problems is simply a slight modification of the pre-/co-requisites of some of the major courses within the program and various electives. By making the suggested changes we can guarantee the minimization of registration issues that may require an advisor’s overwrite permission and help improve the pedagogical flow of the program. After these modifications, the major courses will have to be taken in the following sequence:

***Technical Electives***:

* EET 3132
* EET 4120
* TCET 3222
* TCET 4102
* TCET 4132
* TCET 4140

Furthermore, to prevent similar issues for students entering the ET BT or the TCET BT program a modification of the 5th semester courses in each is made to make sure that students have the necessary background to begin pursuing their degree.

The requirement for the 5th semester courses in both Baccalaureate programs is the completion of the corresponding ABET accredited AAS degree or the department’s approval. The reason for this is to guarantee that both matriculated and transfer students are prepared for the course material and that courses are not taken out of sequence. This also makes it compulsory for students that start out as freshman in the Baccalaureate program to obtain their AAS degree. This is in the best interest for the students as it often happens that personal situations arise that result in them not being able to finish their Baccalaureate degree.

This plan is also in accordance with the 2+2 model that exists for both ET BT and TCET BT programs. Allowing matriculated and transfer students to smoothly enter into the respective BT program.

If the student is not synched with curriculum schedule or if the student has an equivalent non-accredited degree, then the student may still be able to take the Baccalaureate level courses, but subject to the department advisor’s approval.

**2,3. Chancellor’s Report Template for Modification of Existing Courses (also used for minor changes)**

**Section AIII: Changes in Degree Programs**

**AIII.1. The following revisions are proposed for the BTech in Electrical Technology**

**Program: Bachelor of Technology in Electrical Technology**

**Program Code: 0925**

**Effective Date: Fall 2015**

A change of required courses

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **From** | | | | | **TO** | | | | |
| **General Education Common Core** | **44-46 Credits** | | | | **General Education Common Core** | **44-46 Credits** | | | |
| **I – Required Core 1 (14–15 credits)** | | | |  | **I – Required Core 1 (14–15 credits)** | | | |  |
| **English Composition (2 courses, 6 credits)** | | | |  | **English Composition (2 courses, 6 credits)** | | | |  |
| ENG 1102 English Composition I | | | | 3 | ENG 1102 English Composition I | | | | 3 |
| ENG 1121 English Composition II | | | | 3 | ENG 1121 English Composition II | | | | 3 |
| **Mathematical and Quantitative Reasoning (1 course, 4 credits)** | | | |  | **Mathematical and Quantitative Reasoning (1 course, 4 credits)** | | | |  |
| MAT 1375 Pre-calculus | | | | 4 | MAT 1375 Pre-calculus | | | | 4 |
| **Life and Physical Sciences (1 course, 4-5 credits)** | | | |  | **Life and Physical Sciences (1 course, 4-5 credits)** | | | |  |
| Select one of the following courses:  PHYS 1433 Physics 1.2  **or**  PHYS 1441 Physics 1.3 | | | | 4  5 | Select one of the following courses:  PHYS 1433 Physics 1.2  **or**  PHYS 1441 Physics 1.3 | | | | 4  5 |
| **II – Flexible Core (6 courses, 20-21 credits)**  Select two additional courses from approved lists in categories not met at the associate level. | | | | 6 | **II – Flexible Core (6 courses, 20-21 credits)**  Select two additional courses from approved lists in categories not met at the associate level. | | | | 6 |
| **World Cultures and Global Issues** | | | |  | **World Cultures and Global Issues** | | | |  |
| ECON 1101 Macroeconomics | | | | 3 | ECON 1101 Macroeconomics | | | | 3 |
| **US Experience in its Diversity** | | | |  | **US Experience in its Diversity** | | | |  |
| **Individual and Society** | | | |  | **Individual and Society** | | | |  |
| PHIL 2106 Philosophy of technology | | | | **3** | PHIL 2106 Philosophy of technology | | | | **3** |
| **Creative Expression** | | | |  | **Creative Expression** | | | |  |
| **Scientific World** | | | |  | **Scientific World** | | | |  |
| Select one of the following courses:  PHYS 1434 Physics 2.2  **or**  PHYS 1442 Physics 2.3 | | | | 4  5 | Select one of the following courses:  PHYS 1434 Physics 2.2  **or**  PHYS 1442 Physics 2.3 | | | | 4  5 |
| **One addition course from any group** | | | |  | **One addition course from any group** | | | |  |
| MAT 1475 Calculus I | | | | 4 | MAT 1475 Calculus I | | | | 4 |
| **III – College option requirement (10 credits)** | | | |  | **III – College option requirement (10 credits)** | | | |  |
| • One course in Speech/Oral Communication | | | |  | • One course in Speech/Oral Communication | | | |  |
| COMM 1330 Public Speaking  or higher | | | | 3 | COMM 1330 Public Speaking  or higher | | | | 3 |
| • One interdisciplinary Liberal Arts and Sciences course | | | |  | • One interdisciplinary Liberal Arts and Sciences course | | | |  |
| Any approved course | | | | 3 | Any approved course | | | | 3 |
| • Additional liberal arts to reach a total of at least 42 credits  in general education, including one advanced course | | | |  | • Additional liberal arts to reach a total of at least 42 credits  in general education, including one advanced course | | | |  |
| MAT 1575 Calculus Ii | | | | 4 | MAT 1575 Calculus Ii | | | | 4 |
|  | | | |  |  | | | |  |
| **Program-specific degree requirements** | | **72 Credits** | | | **Program-specific degree requirements** | | **72 Credits** | | |
| **Associate Level Courses** | | | |  | **Associate Level Courses** | | | |  |
| EET 1102 Techniques of Electrical Technology | | | | 2 | EET 1102 Techniques of Electrical Technology | | | | 2 |
| EET 1122 Circuit Analysis I | | | | 4 | EET 1122 Circuit Analysis I | | | | 4 |
| EET 1202 Electrical Drafting | | | | 1 | EET 1202 Electrical Drafting | | | | 1 |
| EET 1222 Circuit Analysis II | | | | 5 | EET 1222 Circuit Analysis II | | | | 5 |
| EET 1240 Electronics | | | | 4 | EET 1240 Electronics | | | | 4 |
| EET 1241 Electronics Laboratory | | | | 1 | EET 1241 Electronics Laboratory | | | | 1 |
| EET 2120 Advanced Circuit Analysis | | | | 3 | EET 2120 Advanced Circuit Analysis | | | | 3 |
| EET 2140 Communications Electronics | | | | 3 | EET 2140 Communications Electronics | | | | 3 |
| EET 2141 Communications Electronic Laboratory | | | | 1 | EET 2141 Communications Electronic Laboratory | | | | 1 |
| EET 2150 Electric Machines Theory | | | | 3 | EET 2150 Electric Machines Theory | | | | 3 |
| EET 2162 Digital Electronics I | | | | 3 | EET 2162 Digital Electronics I | | | | 3 |
| EET 2171 Projects Laboratory | | | | 1 | EET 2171 Projects Laboratory | | | | 1 |
| EET 2220 Electronic Controls | | | | 3 | EET 2220 Electronic Controls | | | | 3 |
| EET 2251 Electric Machines Lab | | | | 1 | EET 2251 Electric Machines Lab | | | | 1 |
| EET 2262 Digital Electronics II | | | | 3 | EET 2262 Digital Electronics II | | | | 3 |
| EET 2271 Circuits Analysis Lab | | | | 1 | EET 2271 Circuits Analysis Lab | | | | 1 |
|  | | | |  |  | | | |  |
| ENG 1101 English Composition I | Met as GenEd | | | | ENG 1101 English Composition I | Met as GenEd | | | |
| ENG 1121 English Composition II | Met as GenEd | | | | ENG 1121 English Composition II | Met as GenEd | | | |
| MAT 1375 Pre-calculus | Met as GenEd | | | | MAT 1375 Pre-calculus | Met as GenEd | | | |
| MAT 1475 Calculus I | Met as GenEd | | | | MAT 1475 Calculus I | Met as GenEd | | | |
| PHYS 1433 Physics 1.2  or  PHYS 1441 Physics 1.3 | Met as GenEd | | | | PHYS 1433 Physics 1.2  or  PHYS 1441 Physics 1.3 | Met as GenEd | | | |
| PHYS 1434 Physics 2.2  or  PHYS 1442 Physics 2.3 | Met as GenEd | | | | PHYS 1434 Physics 2.2  or  PHYS 1442 Physics 2.3 | Met as GenEd | | | |
|  | | | |  |  | | | |  |
| **Baccalaureate Level Courses** | | | |  | **Baccalaureate Level Courses** | | | |  |
| EET 3102 Signals and System | | | | 4 | EET 3102 Signals and System | | | | 4 |
| EET 3112 Microprocessor Applications | | | | 3 | EET 3112 Microprocessor Applications | | | | 3 |
| EET 3120 Sensors and Instrumentation | | | | 3 | EET 3120 Sensors and Instrumentation | | | | 3 |
| EET 3202 Principles of Communications Systems | | | | 4 | EET 3202 Principles of Communications Systems | | | | 4 |
| EET 3212 Control Systems | | | | 4 | EET 3212 Control Systems | | | | 4 |
| EET 3222 Power Electronics | | | | 3 | EET 3222 Power Electronics | | | | 3 |
| EET 4102 Electrical Power Systems | | | | 3 | EET 4102 Electrical Power Systems | | | | 3 |
| EET 4112 Mechatronics | | | | 3 | EET 4112 Mechatronics | | | | 3 |
| EET 4202 Digital Signal Processing | | | | 3 | EET 4202 Digital Signal Processing | | | | 3 |
| EET 4212 Capstone Project | | | | 3 | EET 4212 Capstone Project | | | | 3 |
| 2 Technical Electives (5-6 credits) | | | | 5-6 | 2 Technical Electives (5-6 credits) | | | | 5-6 |
|  | | | |  |  | | | |  |
| ~~ENG 3773 Advanced Technical Writing~~ | | | | ~~3~~ | ENG 2570 Writing in the Workplace | | | | 3 |
| ~~ENG 3771 Advanced Career Writing~~ | | | | ~~3~~ | ENG 2575 Technical Writing | | | | 3 |
| PHIL 2106 Philosophy of Technology | Met as GenEd | | | | PHIL 2106 Philosophy of Technology | Met as GenEd | | | |
| ECON 1101 Macroeconomics | Met as GenEd | | | | ECON 1101 Macroeconomics | Met as GenEd | | | |
| MAT 1575 Calculus II | Met as GenEd | | | | MAT 1575 Calculus II | Met as GenEd | | | |
| ~~MAT 2572 Probability and Mathematical Statistics~~ | ~~4~~ | | | | MAT 1372 Statistics with Probability  or  MAT 2572 Probability and Mathematical Statistics | 3  4 | | | |
| COMM 1330 Public Speaking or higher | Met as GenEd | | | | COMM 1330 Public Speaking or higher | Met as GenEd | | | |
|  | | |  | |  | | |  | |
| **Total program-specific required and elective courses** | | | **~~87-88~~** | | **Total program-specific required and elective courses** | | | **86-88** | |
| **Total NYSED Liberal Arts/Science credits** | | | **44-46** | | **Total NYSED Liberal Arts/Science credits** | | | **44-46** | |
| **Total Credits for Degree** | | | **~~131-134~~** | | **Total Credits for Degree** | | | **130-134** | |
|  | | |  | |  | | |  | |
|  | | |  | |  | | |  | |

**Rationale:** Both MAT 1372 - Probability and Statistics and MAT 2572 - Probability and Mathematical Statistics I cover probability and statistics, which are prerequisites for understanding various communication system concepts presented in the course. Both courses cover the material on random variables, density functions, and hypothesis testing that are the basic concepts needed to understand the material in the course.

Furthermore, the change also takes into consideration the name and code change to the technical and career writing courses within the English Department.

**The following revisions are proposed for the BTech in Electrical Technology**

**Program: Bachelor of Technology in Electrical Technology**

Program Code: 0925

**Effective: Fall 2015**

|  |  |  |  |
| --- | --- | --- | --- |
| **FROM:** | | **TO:** | |
| **BTECH ELECTIVES** | | **BTECH ELECTIVES** | |
| EET 3132 Introduction to Remote Sensing | 3 | EET 3132 Introduction to Remote Sensing | 3 |
| EET 4120 Engineering Technology Management | 2 | EET 4120 Engineering Technology Management | 2 |
| ~~EET 4242 Remote Sensing (Special Topics)~~ | ~~3~~ | TCET 3222 Satellite Transmission | 3 |
| TCET 3222 Satellite Transmission | 3 | TCET 4132 Wireless Communications | 3 |
| TCET 4102 Fiber Optic communications | 3 | TCET 4102 Fiber Optic communications | 3 |
| TCET 4140 Telecommunications Network Management | 3 | TCET 4140 Telecommunications Network Management | 3 |

**Rationale:** A recent meeting with the department’s Industry Advisory Commission[[1]](#footnote-1) supports the concept that wireless communication is the future and that it is imperative that students become familiar with the underlining technology.

**Section AV: Changes in Existing Courses**

**Changes to be offered in the ETET department - EET 3102 Signals and Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122892 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** |  | **Prerequisite** | AAS degree in EET or department approval |
| **Corequisite** | ~~MAT 1575~~ | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** | MAT 1575 |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The AAS prerequisite corresponds to an ABET accredited EET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. TCET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

There are some students that enter the program without having to take any of the remedial mathematics courses. As such, having to enforce the co-requisite of MAT 1575 causes problems when registration approaches. For this reason, it is better if the course was considering a pre-/co-requisite.

**Changes to be offered in the ETET department - EET 3112 Advanced Microcontroller & Embedded System Design**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122893 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~None~~ | **Prerequisite** | AAS degree in EET or department approval |
| **Corequisite** | ~~None~~ | **Corequisite** | EET 3102 |
| **Pre- or corequisite** | ~~EET 2262 or equivalent~~ | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** | ~~This course will introduce in-depth of microcontroller systems, including architecture, interface, and applications. It is a "hands-on" course which will use PIC microcontrollers from Microchip Inc. to implement embedded systems. Students will be expected to spend a considerable amount of time in the lab experimenting with the microcontroller. They will gain significant experience in using a PIC-based microcontroller to input information from user, via buttons and switches, and output information using LEDs and LCD displays. Both assembly and C languages are used during the lab and assignments. Toward the end of the semester, students will know how to design and develop an embedded system in details for different applications.~~ | **Description** | This course will introduce in-depth of microcontroller systems, including architecture, interface, and applications. It is a "hands-on" course which will use PIC microcontrollers from Microchip Inc. to implement embedded systems. Students will be expected to spend a considerable amount of time in the lab experimenting with the microcontroller. They will gain significant experience in using a PIC-based microcontroller to input information from user, via buttons and switches, and output information using LEDs and LCD displays. Both assembly and C/C++ languages are used during the lab and assignments. Toward the end of the semester, students will know how to design and develop an embedded system in details for different applications. |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The AAS prerequisite corresponds to an ABET accredited EET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. TCET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

The information taught in EET 3102 relates to EET 3112. It would be better to have the co-requisite since the concepts from one would reinforce those learned in the other.

The slight change in the description now includes both C and C++ languages. As the tools for programming the microcontrollers evolve, so must the content being taught and now the tools operate on the C++ programming language.

**Changes to be offered in the ETET department - EET 3120 Sensors and instrumentation**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122895 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** | ~~EET 3120~~ | **Course** | EET 3122 |
| **Prerequisite** | ~~EET 1240, MAT 1475, PHYS 1434 or PHYS 1442~~ | **Prerequisite** | AAS degree in EET or department approval |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** | ~~None~~ | **Pre- or corequisite** | EET 3102 |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The concepts taught in EET 3102 Signals and Systems would reinforce those taught in EET 3120 Sensors and Instrumentation. It would be better to have them as corequisites for each other since the concepts from each would reinforce those learned in the other. Also, the renumbering to 3122 takes into account the fact that the course has both a lecture and a lab.

The AAS prerequisite corresponds to an ABET accredited EET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. TCET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

**Changes to be offered in the ETET department - EET 3202 Principles of Communication Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122896 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~EET 3102~~ | **Prerequisite** | EET 3102 |
| **Corequisite** | ~~MAT 2572~~ | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** | MAT 1372 or MAT 2572 |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** Both MAT 1372 - Probability and Statistics and MAT 2572 - Probability and Mathematical Statistics I cover probability and statistics, which are prerequisites for understanding various communication system concepts presented in the course. Both courses cover similar topics[[2]](#footnote-2), e.g. random variables, density functions, and hypothesis testing that are the basic concepts needed to understand the material in the course.

**Changes to be offered in the ETET department - EET 3212 Control Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122900 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~MAT 1575~~ | **Prerequisite** | EET 3102, MAT 1575 |
| **Corequisite** | ~~None~~ | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** To be successful in a control systems course the student must be familiar with the concepts from the previous course EET 3102 and have a good grasp of MAT 1575.

**Changes to be offered in the ETET department - EET 4102 Electrical Power Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122902 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~EET 3222~~ | **Prerequisite** | EET 3222 |
| **Corequisite** | ~~EET 4120~~ | **Corequisite** | None |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** EET 4120 is listed as a technical and therefore cannot be a prerequisite for a required course.

**Changes to be offered in the ETET department - EET 4112 Applied Mechatronics**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122903 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~EET 1240, EET 2262, EET 2271~~ | **Prerequisite** | EET 3212 |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale**: In order to understand the concepts in mechatronics a knowledge of EET 3212 - Control Systems is necessary.

**Changes to be offered in the ETET department - EET 4120 Engineering Technology Management**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122904 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~None~~ | **Prerequisite** | EET 3212 |
| **Corequisite** | ~~EET 4102~~ | **Corequisite** | None |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** In studying technology and management, a firm grasp of EET 3212 – Control Theory is very useful since management is all based on the concepts of feedback.

**Changes to be offered in the ETET department - EET 4212 Capstone Project**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 122906 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~EET 4112~~ | **Prerequisite** | EET 4112 |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** | EET 4202 and second technical elective |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** This change is made to avoid an issue of students taking the Capstone course before their final semester by making sure that they are taking or have already taken the only other terminal course in the program, i.e. EET 4202, and all of their technical elective requirements are met.

**Changes to be offered in the ETET department - TCET 3102 Analog and Digital Communications I**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 041112 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~EET 2140, EET 2141, & MAT 1475~~ | **Prerequisite** | AAS in TCET or department approval |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The AAS prerequisite corresponds to an ABET accredited TCET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. EET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

**Changes to be offered in the ETET department - TCET 3120 Switching and Automata Theory**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 041113 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** | ~~TCET 3120~~ | **Course** | TCET 3122 |
| **Prerequisite** | ~~TCET 2242 OR EET 2261~~ | **Prerequisite** | AAS in TCET or department approval |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The AAS prerequisite corresponds to an ABET accredited TCET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. EET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

This course is composed of both a lab and a lecture component. Initially it was numbered incorrectly and this minor modification is meant to correct the code that is given to it.

**Changes to be offered in the ETET department - TCET 3142 Computer Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **CUNYFirst Course ID** | 041114 |  |  |
| **FROM:** |  | **TO:** |  |
| **Department(s)** |  | **Department(s)** |  |
| **Course** |  | **Course** |  |
| **Prerequisite** | ~~TCET 2242 OR EET 2261~~ | **Prerequisite** | AAS in TCET or department approval |
| **Corequisite** |  | **Corequisite** |  |
| **Pre- or corequisite** |  | **Pre- or corequisite** |  |
| **Hours** |  | **Hours** |  |
| **Credits** |  | **Credits** |  |
| **Description** |  | **Description** |  |
| **Requirement Designation** |  | **Requirement Designation** |  |
| **Liberal Arts** | [ ] Yes [ ] No | **Liberal Arts** | [ ] Yes [ ] No |
| **Course Attribute (e.g. Writing Intensive, Honors, etc** |  | **Course Attribute (e.g. Writing Intensive, Honors, etc** |  |
| **Course Applicability** | |  | | --- | | [ ] Major | | [ ] Gen Ed Required | | [ ] English Composition | | [ ] Mathematics | | [ ] Science | | [ ] Gen Ed - Flexible | | [ ] World Cultures | | [ ] US Experience in its Diversity | | [ ] Creative Expression | | [ ] Individual and Society | | [ ] Scientific World | | [ ] Gen Ed - College Option | | [ ] Speech | | [ ] Interdisciplinary | | [ ] Advanced Liberal Arts | | **Course Applicability** | |  |  | | --- | --- | | [ ] Major | | | [ ] Gen Ed Required | | | [ ] English Composition | | | [ ] Mathematics | | | [ ] Science | | | [ ] Gen Ed - Flexible | | | [ ] World Cultures | | | [ ] US Experience in its Diversity | | | [ ] Creative Expression | | | [ ] Individual and Society | | | [ ] Scientific World | | | [ ] Gen Ed - College Option | | | [ ] Speech | | [ ] Interdisciplinary | | | [ ] Advanced Liberal Arts | | |
| **Effective Term** | Fall 2015 |  |  |

**Rationale:** The AAS prerequisite corresponds to an ABET accredited TCET AAS program and allows transfer students with the appropriate degree to smoothly enter into the program, since the ET BT program is part of a 2+2 curriculum. The additional departmental approval allows advisors discretion to permit students from other programs, e.g. EET AAS, or students that are still pursuing their AAS but are ready for the workload, to take the course. This guarantees correct sequencing for students.

# Appendix A

Minutes from the Industry Advisory Commission supporting the inclusion of TCET 4132 Wireless Communications as an elective.

|  |  |
| --- | --- |
| ***college blue_yellow2 | **NEW YORK CITY**  **COLLEGE OF TECHNOLOGY**  The City University of New York  300 Jay Street • Brooklyn, NY 112012983  **Department of Electrical and Telecommunications Engineering Technology**  TEL (718) 2605300 FAX: (718) 2548643 |

**Minutes of the ETET Departmental**

**Industry Advisory Commission (IAC) Meeting**

**May 1, 2014**

|  |  |
| --- | --- |
| Joseph Azzopardi | Hamid Marandi |
| Alexander Bolonkin | Zory Marantz |
| Alex Gelman | Carl Meshenberg |
| Aron Goykadosh | DjafarMynbaev |
| Kevin Hom | Mohammad Razani |
| Delowar Hossain | Alex Rodriguez |
| MiszaKalechman | Morris Schwartz |
| Mohammed Kouar | Viviana Vladutescu |
| Mark Krinker | XinZhou Wei |
|  |  |
|  |  |

* The meeting was called to order at 4:20 PM.
* Dean Homwelcomed the IAC members and provided them with recent updates. He started bioengineering technology program initiative. Many new renovations and construction occurring in the college. The school of technology and design is actively hiring, as opposed to other CUNY schools.
* The Dean pointed out that the IAC members are key to helping students obtain the knowledge and experience they need through internships.
* Mr. Schwartz asked for more information about the biotech degree. The Dean responded that there already are many faculty in the school that are active the field. This is just an initiative. As it progresses and if it succeeds, then a petition will be put together to promote a baccalaureate program.
* Prof. Razani, the Department Chairperson, thanked all the attendees for the efforts in helping us improve our programs. He also thanked them on preparation for the upcoming ABET review. The department would also be grateful with any assistance in terms of internships that the members may provide. Furthermore, the department has been given equipment donations to be implemented in the department’s courses.
* The meeting proceeded to update the IAC members with the ABET review. Prof. Hossain thanked the members for their cooperation and input. There is an internal deadline for the report set at July 1.
* Prof. Kouar reiterated the necessity of getting the members’’ feedback concerning the PEOs and thanked those that have already provided their feedback and those who haven’t yet, to please submit them. In order to get a better idea of the PEOs an alumni survey is also taken. Mr. Schwartz asked what the response rate is to these surveys. Prof. Kouar stated that this year will be the first time that the surveys are done online as a college wide initiative. Some of the questions are pertinent only for the ETET department. None the less, letters were sent out to the graduates, but the best way is to stay in touch with them. The main objective it to make sure that the PEOs are valid and they don’t change much from year to year, but if there are any issues or things that need to be changed, then the department will respond and explain them. Prof. Kouar invited the members to come in and observe a lecture or examine the equipment available.
* Mr. Meshenberg asked if there is a Facebook page available for the alumni. Prof. Vladutescu responded that there is a school wide one, but not one for the department explicitly. Prof. Marantz agreed that there should be one made for the department programs explicitly.
* Dr. Gelman asked if there is a database of alumni emails. Prof. Hossain responded that as graduates leave their student accounts are deleted. Prof. Marandi pointed out that the students generally don’t use the school provided e-mail addresses. Dr. Gelman suggested that the students get IEEE e-mail aliases.
* Prof. Hossain notified that as part of the ABET review, some IAC members are required to come in to take part in a working lunch with the ABET review team and invited the members the join.
* The meeting proceeded to update the members on the new EET BT program. The population is increasing, but more students are entering the EET BT program and the TCET BT program is experiencing a drop. Dr. Gelman asked if high schools are being targeted, to which Prof. Marantz entered in the affirmative. Mr. Schwartz asked what the motive is for the students that currently entered the TCET BT program. Prof. Marantz responded that it is out of necessity, because they were waiting for the EET BT program to begin running.
* Dr. Gelman suggested that specific employers should be targeted, for example Verizon. Prof. Razani pointed out that the current Verizon program is being phased out. Prof. Goykadosh also pointed out that some employers such as Consolidated Edison have their own in house educational program. Mr. Meshenberg mentioned that there are plenty of medium sized companies around and the department may contact them and tailor the program to a particular segment of the industry. Mr. Schwartz pointed out that the banking and financial industry requires graduates that are focused in networking including fiber-optics.
* Mr. Rodriguez asked that if CityTech is the only school with the TCET AAS and BT, then why is it so hard to attract students? Mr. Schwartz answered that the only possible reason is that there is poor marketing to which all the IAC members concurred as the main issue. Prof. Marandi informed the industry members that high schools are targeted, however the programs do not seem to be advertised well.
* Dr. Gelman pointed out that in addition to advertisements maybe there should be an event to attract students. Prof. Marandi informed the members that there will be a project competition this coming Saturday composed of a national variety of universities and colleges as participants. Dr. Gelman and Mr. Schwartz suggested that there should be an event for high school students inviting them to participate in a program that educates them and gets them involved. Prof. Kouar notified the IAC of the Robotics competition where that indeed was the case.
* Profs. Razani and Marandi also mentioned about the department’s activities at the recent Engineering Expo and the second place win for one of the ETET student projects.
* Dr. Azzopardi thanked the faculty of the ETET department for their hard work in attracting new students and followed up by saying that the administration of the school must also contribute to keep attracting the students.
* Dr. Hossain pointed out that there is a disconnect between students’ understanding of what telecommunication is and what they want their careers to be that they consider to be electrical, but is in fact telecommunications. Prof. Razani stated that commercial industries are very well aware that marketing is very important.
* Dr. Gelman suggested that advertising should be done using some sort of exotic gimmick. Also, perhaps pamphlets as well. Mr. Meshenberg agreed. Prof. Marandi stated that all that information is provided once the students enter the program and department. The difficulty is getting them in by providing that first main exposure to the field.
* The floor was passed to Prof. Marandi to discuss the efforts of the enrollment and recruitment committee. Prof. Marandi pointed out that he was unable to get the latest numbers from the registrar due to bugs in the new CUNYFirst system.
* The next update came from the student clubs composed of the IEEE, which Prof. Wei is the faculty advisor and the ETA/NSPE club in which Prof. Marandi is the faculty advisor.
* Prof. Wei informed the committee about the talks provided by Profs. Hossain and Zia. In addition, various workshops were offered on new devices such as the Arduino and the clubs budget was used to purchase some of these devices for the members to experiment with.
* Mr. Schwartz asked what percentage of the student body is a member of the IEEE club. Prof. Wei stated that there are only 40 student members. Prof. Kouar stated that the idea of the club is to make the students aware of what they can learn and do in the future.
* Prof. Marandi updated on the ETA/NSPE club, which is currently composed of 183 active members. There was an essay writing competition at NSPE and the ETA club chapter is currently capable of certifying 22 different disciplines, including fiber-optics.
* Prof. Kouar updated the committee on the latest in the TCET BT program. A Capstone course recently put forth by Prof. Hossain has will be implemented as soon as the state approves it.
* The meeting then moved on to a discussion on the latest in technology. The forum began with Dr. Krinker discussing projects that students may participate in the area of "Second Physics." Dr. Krinker is the only member of the group located in the United States. He suggested that the department's laboratories be used for research in this area. In fact, there is a group of scientists coming in June that would be very interested in meeting at the college. The work that they work on is published in a journal called "Quantum Magic."
* Dr. Bolonkin suggested that students learn how to do research.. Prof. Mynbaev stated that there is such a program and such activities in the college. He also mentioned that he wrote up an article that is a simple electrical experiment that the department's students may set up.
* Dr. Gelman pointed out that the student's in the department are very pragmatic. The job market is expanding and there are new areas that must be investigated. Specifically, wireless communications being applied in biomedicine in the area of nano-communications. There is in fact a new standard that was begun by the IEEE just in this area begun in GE. Further, consumer communications has expanded, i.e. the internet of things and smart-appliances. In automobiles there are many devices that are communicating with a central location and there is discussion of making it all wireless. There is also an effort of having short range communications between cars by usage of beam forming as well as a slew of sensors of situational awareness. There are regulations in effect to guarantee that cars have situational awareness, as provided by the smart car. Finally, the smart grid is being developed to provide a gateway to the internet through the power grid. All of the previous are examples of the intense application of wireless communications that students should become familiar with.
* Dr. Azzopardi thanked the faculty for the invite to the meeting. he also stated that the experimental demonstration that Dr. Krinker presented at the recent National Association of Power Engineers was very exciting to watch. This is the type of thing that may be used to attract students. Further, he suggested more field trips through connections with the MTA and other corporations.
* Mr. Rodriguez suggested that students should try to get an internship while they're still in school because that experience would help them in their future.
* The meeting was adjourned at 6 PM.

Cc: Chairman Mohammad Razani

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# Appendix B

Supporting evidence of contact of other departments affected by proposed changes.



1. See [Appendix A](#_Appendix_A). [↑](#footnote-ref-1)
2. See [Appendix B](#_Appendix_B). [↑](#footnote-ref-2)