MEMORANDUM OF UNDERSTANDING
BETWEEN
THE COLLEGE OF ENGINEERING, UNIVERSITY OF HAWAI‘I AT MANOA
AND
THE STATE OF HAWAI‘I DEPARTMENT OF EDUCATION
REGARDING
College-Focused Engineering Pathway to Acceptance at the College of Engineering,
University of Hawai‘i at Manoa

This Memorandum of Understanding ("MOU") is between the College of Engineering, University of Hawai‘i at Manoa (CoE-UHM) with its principal place of business at 2540 Dole Street, Holmes Hall 240, Honolulu, Hawai‘i 96822 and Hawai‘i State Department of Education and its affiliates, (HIDOE) with its principal place of business located at 1390 Miller Street, Honolulu, Hawai‘i 96813.

I. Purpose
The purpose of this agreement is to establish a formal partnership between HIDOE and CoE-UHM for the purposes of a single initiative, the College-Focused Engineering Pathway to Acceptance at the College of Engineering, University of Hawai‘i at Manoa. This MOU seeks to clearly identify the requirements and necessary preparation for Hawai‘i high school students to be accepted directly into a designated engineering major in the CoE-UHM, an engineering course of study accredited by the Accreditation Board for Engineering and Technology (ABET).

II. Background
The CoE-UHM has supported the development of a college-focused engineering pathway for Hawai‘i public high school students to enter its professionally accredited engineering program. The pathway concept resulted from a collaboration between HIDOE and CoE-UHM, and was funded through an Office of Naval Research grant administered by the Director of the Office of Naval Research Project and Educational Leadership Program at Chaminade University. Through this collaborative effort the following milestones were achieved:

- Developed college-focused engineering pathway program requirements for high school students to successfully matriculate and pursue a degree at the CoE-UHM.
- Worked on the development of Engineering Technology I and II standards.
- Developed HIDOE approved Engineering I and II high school courses. These courses are consistent with the anticipated knowledge base for CoE-UHM entry level engineering course objectives.

III. Collaboration
CoE-UHM and HIDOE will each accept the following roles and responsibilities to meet the goals of this agreement to the extent practical and authorized by law and State policies:
A. College of Engineering, University of Hawai'i at Manoā

1. Designate a point of contact (POC) within CoE-UHM to administer the College-Focused Engineering Pathway program to acceptance at the College of Engineering, University of Hawai'i at Manoā Initiative.

2. Provide an annual summary of CoE-UHM public school freshmen enrollment data including students identified by HIDOE as successfully completing the College-Focused Engineering Pathway program.

3. CoE-UHM will summarize the College-Focused Engineering Pathway program data gathered from the review of applications from all public high school students accepted to the University of Hawai'i at Manoā who have designated an engineering major and self-reported that they are enrolled in the College-Focused Engineering Pathway program on their application. This data will confirm that CoE-UHM has accepted students who met the following requirements:
   
   - **Gained admission into the University of Hawai'i at Manoā.**
   
   - **Met HIDOE College-Focused Engineering Pathway Program of Study requirements as provided by the HIDOE.** The list of high school student graduates who have successfully met all HIDOE College-focused Engineering Pathway Program of Study will be provided to the CoE-UHM POC. The College-Focused Engineering Pathway Program of Study requirements are included in Attachment 1.

4. Coordinate and facilitate an annual meeting with HIDOE POC.

B. Hawai'i State Department of Education

1. Designate a point of contact (POC) within the HIDOE to administer the College-Focused Engineering Pathway to Acceptance at the College of Engineering, University of Hawai'i at Manoā Initiative.

2. Disseminate information and announcements regarding the program to HIDOE administrators, specialist, and teachers.

3. Provide the list of public high school graduates identified by the HIDOE as having successfully completed the HIDOE's College-Focused Engineering Pathway program.

4. Provide data to the CoE-UHM POC on: 1) schools adopting the College-Focused Engineering Pathway program, and 2) schools teaching Engineering I and II courses.

5. Develop strategies with the CoE-UHM to monitor and assess program effectiveness in order to optimize student success.
IV. **General** (Standard Language – keep intact)

A. This MOU is strictly for internal management use of each of the parties. It is not legally enforceable and shall not be construed to create any legal obligation on the part of either party. This MOU shall not be construed to provide a private right or cause of action for or by any person or entity.

B. This MOU can be amended by either party should university admission requirements and/or HIDOE requirements change. Consideration of high school students enrolled in the program will be made.

C. This MOU can be terminated by either party at any time by providing notice in writing to the other party.

D. This MOU in no way restricts either of the parties from participating in any activity with other public or private agencies, organizations or individuals.

E. This MOU is neither a fiscal nor funds obligation document. Nothing in this MOU authorizes or is intended to obligate the parties to expend, exchange, or reimburse funds, services, or supplies, or transfer or receive anything of value.

F. This agreement is effective for five years from the time of signing. The parties to this agreement will review the program one year prior to the expiration of the agreement to ascertain whether alterations are required.

G. The terms of this agreement are subject to prevailing University of Hawai‘i and HIDOE policies.

**UNIVERSITY OF HAWAI‘I AT MANOA**

Robert Bley-Vroman 3/14/16  
Interim Chancellor

Reed Dasenbrock 3/11/16  
Vice Chancellor for Academic Affairs

**THE STATE OF HAWAI‘I DEPARTMENT OF EDUCATION**

Kathryn S. Matayoshi 3/10/2016  
Superintendent

Peter Crouch 3/11/16  
Dean, College of Engineering
<table>
<thead>
<tr>
<th>Required Courses (Grades of B or Better)</th>
<th>Engineering Pathway Courses (Grades of B or Better)</th>
<th>Electives Application/Content Courses</th>
<th>Other Program Requirements</th>
<th>Outcome of Meeting Program of Study Requirements</th>
<th>K-16 Outcome</th>
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<tbody>
<tr>
<td>Mathematics: 4 credits (Grades of B or Better)</td>
<td>Grade 9 TIC5010 Industrial and Engineering Technology Core</td>
<td>Mathematics: ~ Probability/Statistics ~ AP Statistics</td>
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<td>Acceptance into UHM</td>
<td>Engineer</td>
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<td>~ Geometry I or 2-Year Integrated Common Core Sequence</td>
<td>Grade 10 TIU5810 Engineering Technology I</td>
<td>Science: ~ AP Chemistry ~ AP Physics ~ AP Environmental Science</td>
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<td>Acceptance into College of Engineering-UHM in a Declared Engineering Major</td>
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<td>Science: 4 credits (Grades of B or Better)</td>
<td>Grade 12 XAT1000 STEM Capstone</td>
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<td>~ Physical Science or Other Sci. Course</td>
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<td>~ Biology 1 (or accepted AP/IB equivalent)</td>
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<td>~ Chemistry (or accepted AP/IB equivalent)</td>
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<td>~ Physics (or accepted AP/IB equivalent)</td>
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<td>English: 4 credits</td>
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<td>Social Studies: 4 credits</td>
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<tr>
<td>Physical Education: 1 credit</td>
<td>TIN5512 A+ Certification Operating Systems</td>
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<td>Health: 0.5 credit</td>
<td>TIN5513 Internship</td>
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<td>Personal Transition Plan</td>
<td>TIU5620 Electronic Technology I</td>
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<tr>
<td>0.5 credit</td>
<td>TIN5623 Electronic Technology II</td>
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**Total Credits = 24**