Master of Engineering

Graduate Student Handbook

College of Engineering & Applied Science
Graduate Studies Office
665 Baldwin Hall

Revised July 2016
MASTER’S of ENGINEERING (MEng) DEGREE

The Master of Engineering program provides a graduate degree that focuses on the practice of engineering in order to better serve working professionals. Rather than culminate in a research experience and a thesis, the Master of Engineering curriculum provides skills and expertise that enhance the individual's ability to contribute to the technical workforce.

The program provides advanced training to students interested in expanding their knowledge and expertise. Depending on a student's interest, the degree could add significant depth to an individual's understanding of the practice of engineering, or the program could be constructed to focus on greater inter-disciplinary breadth if that is the educational objective of the student.

**MEng Program Options**

- Aerospace Engineering
- Biomedical Engineering
- Civil Engineering
- Electrical Engineering
- Computer Engineering
- Computer Science
- Environmental Engineering
- Chemical Engineering
- Material Science Engineering
- Mechanical Engineering

**Admission Requirements**

Admissions are controlled by the program in which the prospective student wishes to focus their program of study.

The following are nominal criteria for admission into the MEng program:

- Must hold a BS degree from an ABET accredited program (or equivalent if from an international university) in a corresponding engineering discipline and must provide official transcripts from the institution where the degree was obtained.
- Individuals with an ABET accredited engineering technology degree may be admissible and will be evaluated on a case-by-case basis. Pre-requisite work may be prescribed.
- Minimum undergraduate grade point average (GPA) of 3.0 / 4.0 or equivalent.
- Submit GRE scores (waived for domestic students meeting above criteria).
- Two letters of recommendation.
- Statement of purpose.

International students are required to submit TOEFL scores. Students must meet minimum requirements established by the University. The TOEFL requirement is waived for international students that have earned a degree from a US institution, and for international students who earned a degree from certain countries where the medium of instruction is English.

Individuals may request a waiver of some of the above requirements (e.g., undergraduate GPA less than 3.0) if they provide evidence to the graduate program director that they have sufficient basis to warrant a waiver. It is up to the program to accept or decline this request.

**Advising**

The College Director of the Master of Engineering programs is available to meet with students for academic planning and to recommend courses. Each program also has an advisor to work with MEng students who is most familiar with the curriculum in that program. The advisor will
provide guidance on appropriate courses to meet the student’s educational objectives and the sequence of these courses. Since the structure of the MEng program is more flexible than most graduate programs, it is very important that the advisor meet with the student and work with the student to establish the program of study.

Students in the MEng program do not complete a thesis. Instead, a capstone course is completed. The student should meet with the advisor or capstone course instructor to seek guidance commensurate with the academic requirements. It is not the responsibility of the advisor to identify a project or capstone experience for each student.

Changes or exceptions to program requirements including course substitution, special topics, and credit hour distribution between core and track areas must be approved by the Program MEng advisor or Graduate Program Director, and the College Director of MEng programs.

The Department’s Graduate Studies Director or the College Director of MEng Programs is required to sign off on graduation certifications for MEng students approving that they have met the MEng requirements for graduation.

**Obtaining the Degree**

The degree will be based on the successful completion of a minimum of 30 credits of graduate-level course work and does not require a thesis. The curriculum is structured to provide a foundation of advanced engineering topics while allowing students flexibility to meet their specific educational objectives. The curriculum includes:

- **Program core courses** taken by all Master of Engineering students regardless of which track they pursue (two courses providing 4-8 credit hours). The core provides skills in the effective practice of engineering recognizing that for experienced practitioners, effectiveness includes technical skills, project and task management skills, and interpersonal skills.

- **Track required courses** from the discipline of interest (4-5 courses providing 10-15 credit hours depending upon the track)

- **Elective courses** which permit breadth, depth, or interdisciplinary focus depending on student educational objectives (number of course credit hours required depends upon the track)

- **Capstone** demonstrates applications of skills and synthesis of knowledge (0-6 credit hours depending on the options described below). If additional credit hours are taken they do not count towards a course requirement. Additional details regarding capstone completion are provided in another section of the handbook.

<table>
<thead>
<tr>
<th>MEng Curriculum Requirements</th>
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</thead>
<tbody>
<tr>
<td><strong>Program Core</strong></td>
</tr>
<tr>
<td>2 courses (4-8 cr hrs)</td>
</tr>
<tr>
<td><strong>Capstone</strong></td>
</tr>
<tr>
<td>0-6 credit hours</td>
</tr>
</tbody>
</table>
• Seminar cannot count towards course requirements. If you take seminar, it will be in addition to the 30 course credit hours required for the degree.

• **Special Topics / Independent Study** can only count for a maximum of 3 course credit hours toward the degree. Additional course credit hours of Special Topics will be in addition to the 30 course credit hours required for the degree. Students wishing to apply 3 credit hours of Special Topics toward the degree must get prior approval before taking the course. The faculty sponsoring the Special Topics must indicate the topics to be covered and verify the credit hours covered by the course.

**Typical Schedule for Full-Time MEng Program**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Course #1</td>
<td>Core Course #2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Track Required Courses&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Track Course #1</th>
<th>Track Course #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Course #2</td>
<td>Track Course #4</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Courses&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Elect Course #1</th>
<th>Elect Course #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elect Course #2</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Capstone Project</th>
<th>Capstone Project</th>
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<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<sup>1</sup> *Discipline specific course*

<sup>2</sup> *At the discretion of the program, student and the advisor*

**Capstone**

A capstone experience is required for all graduate students at the University of Cincinnati. For the Master of Engineering program, this experience is expected to be around the general topic of application of engineering principles since the MEng is focused on the practice of engineering rather than research or the generation of new knowledge. The capstone experience provides a mechanism to demonstrate a synthesis of knowledge and the application of advanced concepts learned in the program.

**Consult the MEng Program advisor for specific capstone credit hour requirements for each individual program and for any specific requirements for satisfactorily completing the capstone.**

Students should register for their Capstone Project in the spring term and can complete the project in spring or the summer or fall term if needed. If the capstone project is not completed in the spring term, the student will receive a “P” (pass) grade for the spring course. Note that this grade does not signify successful completion of the capstone until the capstone completion form is also signed (Appendix F).
With the Program advisor’s approval, students can choose: 1) to complete a project, 2) an
MEng capstone evaluation – a comprehensive written or oral exam, 3) to perform an internship
or 4) to prepare a written paper under the supervision of the advisor. If students choose the
capstone evaluation, this is a zero credit-hour option and students will need an additional
graduate course in order to meet the credit hour requirements for the degree. This MEng
capstone evaluation can be written or oral, as deemed appropriate by each Program.

Faculty and in many cases professionals in the workforce will oversee and guide the capstone
experience. Students who are working professionals will likely apply the skills developed
through the MEng program to a specific issue faced within the work setting. In all cases, one of
the individuals overseeing the capstone experience must be a member of the graduate faculty.

Several options are available to students, as approved by each program. These are
summarized below with additional details provided later in the handbook.

- **Project** - The capstone project is focused on the application of principles and the practice of
  engineering and is not meant to be a mini-thesis. The capstone projects provide a
  mechanism to demonstrate a synthesis of knowledge and the application of advanced
  concepts learned in class to a specific problem. Students can apply the skills and
  knowledge acquired in the program to a known problem in order to develop an appropriate
  solution. These students could also work with faculty to develop a solution to an issue faced
  in a lab or research group.

- **Capstone Evaluation** – With permission of the Program’s Graduate Studies Director
  students can elect to take a comprehensive evaluation that covers the coursework
  completed as part of the MEng program, including both the core and track courses.

- **Internship** - Students can choose to perform an internship if this furthers their learning and
career goals. The internship must be related to the student’s degree area. The internship
requires approval prior to beginning work (Appendix C), and a final report is required
(Appendix E). International students generally require Curricular Practical Training (CPT) to
perform an internship.

- **Paper** – A written paper can be completed under the supervision of the Program advisor.
The paper will address a topic related to the discipline (track) and require the integration of
multiple topics within that discipline.

**Students Electing a Project for the Capstone**

Students electing to perform a capstone project must submit a proposal for their project using
the form in Appendix A. The form can be submitted at any time but full time students should
submit the proposal no later than the last day of classes in the spring semester of their 1st year
of study. Part-time students should submit the form by the end of the first week of the term in
which they register for the capstone. Students can proceed with the capstone once they have
approval from the faculty member overseeing the capstone project.

The following guidelines apply to the project:

- The project should be commensurate with a three credit hour graduate course. Projects that
  include significant data collection, extended collaborations, travel, and / or extensive
  analysis can be more than three credit hours (this is the exception).

- The project is not a thesis addressing a research issue. It is an application of knowledge
  and skills gained as part of the Master of Engineering program.

- The project should demonstrate a synthesis of knowledge and an application to a practical
  engineering or science problem.
The capstone project includes a written report and an optional presentation. The report will be read by the faculty advisor and a representative from the Office of the Associate Dean for Research and Graduate Studies. If the project is performed in conjunction with work duties, the report and presentation should also be given to the student’s employer.

The topic and scope of the project shall be agreed upon by the student and the capstone advisor. If the project is performed in conjunction with work duties, the scope shall also be agreed upon by the student’s employer.

Students should provide capstone advisors periodic updates on work performed and progress on project completion. The format and schedule should be determined between the advisor and the student.

Guidelines for the Project Report
The final report for a capstone project must follow the guidelines outlined in Appendix B. The form shown in Appendix B is submitted along with the report as described.

- The report is not graded on length but the report is a significant part of the grade for the Capstone and as such should be of sufficient detail to demonstrate a student’s application of knowledge and skills to a problem of significance.
- Inclusion of tables and figures is encouraged. These should be numbered, labeled and referenced in the text.
- Students must submit original material. The work of others must be properly cited.
- The report will be graded on completeness, clarity, and grammar.

Guidelines for the Project Presentation (If Required by Capstone Advisor)
Professionals in the workforce are often called upon to present their work or recommendations regarding technical issues. In many instances, the amount of time a manager can allow is limited and it is necessary for the technical professional to present a clear and compelling description in a condensed time frame. The project presentation provides an opportunity to give such a presentation. It is important that the students carefully plan the presentation and rehearse it in order to do a professional job.

- The presentation should be prepared for a general technical audience unfamiliar with the particular topic addressed.
- Presentation materials are to be prepared and copies made available during the presentation.
- The presentation should be approximately 20 minutes in length and address the same points as the report.
- The student will be expected to answer questions after the presentation.
- The presentation will be graded on clarity, completeness, timeliness and proper preparation.

Capstone Project Grading
The faculty advisor will assign a grade for the project. The following is a recommended grading scale but final grading is determined by the faculty advisor:
50% for successful completion of the project
30% for the report
20% for the presentation
Projects will be eligible for Pass/Fail Grading based on the above criteria. A grade of 70 and above will be considered passing.
**Students Electing Internship as the Capstone**

Students electing to perform an internship to satisfy capstone requirements must submit the form in Appendix C. The form must be sent to the capstone faculty advisor and to Anita Todd. Internships will be approved for 3 months and can be extended for an additional 3 months with the approval of the advisor. Additional documentation is needed for the extension if requested.

International students can be approved for CPT work authorization to participate in an internship; Appendix D provides the information regarding CPT Work Authorization and the approval process for an MENG Capstone Internship for international students. CPT cannot be approved until two full-time semesters of study are completed. CPT work authorization can only be approved prior to or up until a graduation date. CPT will be terminated upon graduation.

The minimum time for the experience to count as a capstone internship is 400 hours (10 weeks full-time or about 20 weeks part-time). This to ensure that students get an extensive experience that serves as a capstone. For international students, the maximum amount of time that the College will approve CPT is six months.

At the completion of the internship, students submit a final report per the instructions in Appendix E. **Note, some programs may require a more substantial written report. In all cases students should confirm the requirements with the faculty advisor for the capstone.** In addition, students are asked to complete an internship survey; this survey is found in the Blackboard Community “MEng Internship Program”. All students who do an internship are automatically enrolled in this Blackboard community.

Students can perform the internship any time after completion of 15 credits of coursework (note that for international students who require CPT work authorization, students must first complete two full-time semesters of study). It is generally not possible to complete an internship while also completing a full-time academic term; it may be possible to participate in a part-time internship while completing a full-time academic term. Students who start the program in the fall semester typically perform an internship the summer semester (3rd semester of residency) or the following fall semester (4th semester of residency).

Full-time students are limited in the number of terms they can seek an internship. If at the completion of the 4th semester of residency, a student has not completed an internship or has not secured an internship for the 5th semester of residency, the student must complete the capstone requirements through a project or paper that is to be completed during the 5th semester of residency.

**Students Electing a Capstone Evaluation**

The capstone evaluation can take several forms as deemed appropriate by the Program. The evaluation can be in the form of a written exam, an exit interview, or a summary essay. The Program will determine what is appropriate. The evaluation itself is not a course with any credit hours (0 credit capstone) so students taking this option must ensure that they meet the minimum program requirements for credit hours completed.

**Students Electing a Paper to Fulfill Capstone Requirements**

Students electing to perform a capstone project must submit a proposal for their project using the form in Appendix A. Once the capstone advisor has approved this proposal, work on the paper can begin. The paper should provide an indication of the student’s mastery of content and the ability to synthesize information. Students must submit original material with the work of others properly cited. The paper will be graded based on thoroughness, accuracy, formatting and grammar.
The final report for a capstone paper must follow the guidelines outlined in Appendix B. The form shown in Appendix B is submitted along with the report as described.

**Verification of Capstone Completion**
A verification of capstone completion is required; students cannot be certified for graduation until this form is completed and approved. This form is provided in Appendix F and shall be signed by the College Manager of the Master of Engineering Programs (or designee) and one or more faculty members from the program. For students who perform a work-based project, an individual (typically a manager) familiar with the work will also sign the form indicating the student was the individual completing the work.

**Transfer from MEng to M.S. or Ph.D.**

Students may be allowed to transfer from MEng status to M.S. or Ph.D. status. Students **must first complete two academic semesters of residency as a MEng student** and with the proper written approval as follows:

- A written application indicating the proposed objectives of the transfer.
- Signature from a faculty member who will serve as graduate thesis advisor.
- Signature of the Program’s Graduate Program Director.

Transfer petitions may be considered only within certain time frames. Consult the Program Advisor or Graduate Program Director for additional information.

MEng to MS transfer applicants must meet all MS admission criteria, as established by the program. Individuals admitted to the MEng program with certain deficiencies (e.g., undergraduate GPA below 3.0 or undergraduate degree in non-qualified discipline) may not be eligible for transfer. Consult the Graduate Program Director for additional details.

The MEng program is not generally intended as a pathway for doctoral study. A student interested in a doctoral program needs to consult the Graduate Program Director in that program early in their course of study so as to be properly advised. Ph.D. admission in some programs requires specific coursework at the Master’s level.

Once the approvals are obtained, a student can follow an MS program of study but they will still be a MEng students until the two academic semester are complete.

**Transfer from M.S. to MEng**

Students may be allowed to transfer from an MS program to MEng with the proper written approval as follows:

- A written application indicating the proposed objectives of the transfer and provide justification.
- Signature from the student's graduate thesis advisor. Faculty invest significant time in advising a thesis student and are not obligated to approve the transfer.
- Signature of the Program’s Graduate Program Director.

Except in exceptional cases, students who have been funded as a research or teaching assistant will not be permitted to transfer to a MEng program.

Thesis and research hours do not count toward the MEng degree.
Students who are either full-time or who initially matriculated as full-time students who transfer from an MS program to an MEng program are required to complete at least one full-time academic term after the transfer is approved. All remaining MEng academic requirements should be fulfilled during this additional semester.

**Academic Progress Standards**

**Academic Good Standing**
In order to be in academic good standing students must be making progress toward degree completion and demonstrate mastery of course content and program learning objectives. A student must accumulate a grade point average (GPA) of at least 3.0 to obtain a master’s degree at the University of Cincinnati. At the graduate level, the lowest passing grade is a C.

To remain in good academic standing, full-time students must maintain a minimum 3.0 cumulative grade point average each semester in all graduate-level work in the Master of Engineering program. Part-time students must have a cumulative GPA of 3.0 or higher after the completion of four courses in the MEng program.

Failure to maintain a minimum 3.0 GPA will result in academic probation and/or dismissal, regardless of the number of credit hours already completed with a passing grade. A student who receives an F grade in a course will also be on academic probation.

**Continuous Enrollment**
The Graduate School requires all students to be enrolled (and earn a successful completion grade) in at least one (1) graduate-level credit hour in the student’s degree program during each academic year from the first term of enrollment to the last term of enrollment (degree completion/graduation). Students who fail to enroll in each academic year from start to finish lose “active” student status. International students must register in Fall and Spring semester for 1 credit hour minimum until they graduate or are on OPT, students on CPT must register for 1 credit each academic semester. If they are on OPT they must register for one credit each academic year.

Students who become inactive while on academic probation may not be permitted to re-enroll in later terms and complete the degree.

Specific policies and procedures regarding reinstatement can be found in the Student Handbook of the University of Cincinnati Graduate School.

**Course Completion**
Students are expected to complete all courses in which they enroll. Official withdrawals (W or WX) do not calculate into the cumulative GPA and are acceptable to an extent. Multiple withdrawals over successive terms suggest that a student may not be completing coursework at a sufficient pace for satisfactory progress toward the degree.

Failing and non-participation grades (F, UW, and X) indicate a student is not successfully completing courses, and therefore not making satisfactory progress toward the degree. Students who earn more than one failing grade in any single term, or more than two failing grades over any number of terms, may be dismissed without further opportunity for redemption.
Students in academic jeopardy may be denied enrollment until these grades are resolved. Enrollment may be denied to any student with more than one unresolved grade on record until all grades are resolved.

Note: Grades are not replaced at the Graduate Level at UC. If a course is taken more than once, all grades earned are calculated into the cumulative GPA.

**Academic Probation**
Academic Probation is defined as the period during which a student’s ability to meet minimum academic standards is tested. The goals of academic probation are: (1) to ensure students are aware they are not meeting minimum requirements for their degree and (2) to give students a reasonable opportunity for academic redemption. Enrollment, participation, and grades are closely monitored while on academic probation. Students are expected to earn their highest grades while on academic probation; these grades will be used as an indicator of future student progress, and to determine whether a student can reach a minimum cumulative GPA of 3.0 without the need for coursework beyond that which is required for the degree.

Causes for probation include:
1. Any student who does not meet the GPA requirement;
2. A student fails to adhere to the University's Student Code of Conduct
3. Multiple course withdrawals and / or incomplete (I or NG grades assigned) courses
4. Receiving an F grade

Part-time students on academic probation have up to two terms of part-time (maximum six hours per semester) enrollment to achieve a 3.0 GPA. If after this period a student’s cumulative GPA in program coursework is not above 3.0, the student will be dismissed from the program.

Full-time students on academic probation are required to meet with their academic advisor and present a plan for returning to good academic standing. Students should consider reducing the number of credit hours taken in a term so that they achieve grades that help return them to good academic standing. If a student achieves a GPA of lower than 3.0 for two consecutive semesters, the student will be restricted to part-time (maximum six semester hours) of enrollment while on academic probation. Students on academic probation for a second term will be blocked from future enrollment pending the outcome of their grades for the second term of probation.

**Repeating Courses**
If a student does not successfully complete a program course (C or better), the student may repeat the course once. If a student is unsuccessful in the course the second time, the student may be eligible for dismissal.

**Academic Dishonesty**
Academic dishonesty in any form is a serious offense that cannot be tolerated in an academic community. Dishonesty—including cheating, plagiarism, deception of effort, and/or unauthorized assistance—may result in a failing grade in a course and/or suspension or dismissal from the university.

**Time to Degree**
Students are required to complete the degree after no more than five semesters of residency; most will complete the degree sooner. This requires that students who are seeking to do an internship to satisfy the capstone requirement must complete the internship by the end of the
spring term one academic year after they first matriculate as indicated in the table below. If an internship cannot be found for the spring of year 2, a student must complete a project or paper.

<table>
<thead>
<tr>
<th>Fall year 1</th>
<th>Academic Term</th>
<th>Academic Term</th>
<th>Academic Term</th>
<th>Academic Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring year 1</td>
<td>Academic Term including capstone project</td>
<td>Academic Term</td>
<td>Academic Term</td>
<td>Academic Term</td>
</tr>
<tr>
<td>Summer year 1</td>
<td>Internship or project/paper</td>
<td>(search for internship)</td>
<td>(search for internship)</td>
<td></td>
</tr>
<tr>
<td>Fall year 2</td>
<td>Internship or project/paper</td>
<td>(search for internship)</td>
<td></td>
<td></td>
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<tr>
<td>Spring year 2</td>
<td></td>
<td>Internship or project/paper</td>
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**Appeal of Decisions**

Students will be informed of all decisions affecting their status in the program and each has a right to appeal under the grievance procedures drawn up by the Graduate Division of the University. The process and procedures for appeal are described at [http://grad.uc.edu/student-life/policies/grievances.html](http://grad.uc.edu/student-life/policies/grievances.html).

**Notification**

The Manager of the Master of Engineering Program or a representative of the College Graduate Studies Office will notify students via email of their probationary status and any specific progress requirements. Notices are sent at the conclusion of each academic term, and only to UC student email addresses.

**Graduation Requirements**

Students must complete all the academic requirements of the program to graduate including:

- Minimum of 30 credit hours with no grades below a C
- Capstone requirement
- Minimum of 3.0 GPA
- Program of study approved by Graduate Program Director or college Graduate Studies Office

In addition, students must complete the following forms, have them signed and return to the CEAS Graduate Studies Office (665 Baldwin):

- Final program of study form
- Capstone Completion form

Students must apply online for graduation [http://grad.uc.edu/student-life/graduation.html](http://grad.uc.edu/student-life/graduation.html) and pay the graduation application fee even if a student does not intend to attend graduation ceremonies.

Graduation deadlines are set by the Graduate School. Failure to meet the deadlines will result in delaying graduation until the following semester, requiring submission of a new application for graduation.
All students applying for graduation will be assessed a non-refundable graduation application fee. The fee will be assessed each semester a student applies for graduation.
Appendix

A: Capstone Proposal: Project or Paper
B: Capstone Final Report: Project or Paper
C: Capstone Proposal: Internship
D: CPT Fact Sheet
E: Capstone Final Report: Internship
F: Record of Master of Engineering Capstone
MME M Eng. Capstone Proposal: Project or Paper

Student name: _______________________________  M number: M__________
[ last name, first name ]

UC email address: ____________@mail.uc.edu       Type [check one]: □ Project □ Paper

Degree area:  ________________________________________________

Academic year admitted: _____________ [e.g., 2016-17]

Capstone Advisor's name: ________________________  email: ________________________

Department: ________________________________ Phone: _________________________

Project/Paper title: _____________________________________________________________

Expected start date: ______________________    Expected end date: ________________

Topic description:

[Blank space for topic description]

Work expected:

[Blank space for work expected]

Expected outcomes:

[Blank space for expected outcomes]
The report must contain the following:

- **cover page** as shown on the next page,
- **abstract** that succinctly describes the problem addressed, the methods used, and the results,
- **introduction** that provides sufficient background to allow the reader to understand the problem, the constraints and relevant characteristics of the project,
- **methods** (approach or analysis, as appropriate) that describe how the problem was addressed; this section should provide some details on how the skills and knowledge gained through the MEng program contributed to the solution,
- **results** obtained through the project,
- **discussion** of the efficacy of the approach, lessons learned through the project, areas for improvement, additional work that could be performed, and
- **bibliography** of references cited.

Project reports should not exceed 10 pages, double-spaced, 11pt font, and one-inch margins. Appendices with code or graphs, for example, can be included and cited in the body of the report.

Capstone papers can be up to 25 pages in length, not counting appendices.
Title of Project

A capstone project report submitted in partial fulfillment of the requirement for the degree of

Masters of Engineering

In the Name of Department Graduate Program,
College of Engineering & Applied Science

Date

Student Name
MME M Eng. Capstone Proposal: Internship

Student name: _______________________________  M number: M____________
[last name, first name]

UC email address: _________________@mail.uc.edu

Degree area: __________________________________________________________________

Academic year admitted: _____________ [e.g., 2016-17]

Internship Company or organization: _____________________________________________

Location (city, state, country if not US): _____________________________________________

Supervisor’s name: ______________________________   email: _______________________

Phone: ________________________________

Position title: _________________________________

Expected start date: ______________________    Expected end date: ____________________

Job description/duties:


CPT Fact Sheet

Completing a Capstone Internship and using CPT Work Authorization

Definitions:

CPT – Curricular Practical Training – Training available to F-1 scholars as part of a degree program. The MENG capstone internship is an approved CPT program.

CPT Work Authorization – Approval from CEAS and UC for a student to work.

Registration – for the purpose of this document, registration means being registered for one or more credits through the University of Cincinnati. After completion of the first full year of full-time studies, graduate students are required to be registered with UC for a minimum of one credit every fall or spring term that they continue until the semester of graduation. This maintains student status for F-1 visa purposes and student status for UC purposes.

Full-time Employment – for the purpose of this document, full-time means working 21 or more hours per week (Typical US work week is 40 hours)

Part-time Employment – part-time is employment that is less than full-time, therefore, it is 20 hours or less per week.

Capstone Internship – a capstone internship is a work experience used by MENG students to meet the capstone requirement. Either an internship or permanent employment experience can be used for the capstone internship. Capstone internships will have a defined end date (will be defined based on the terms of employment or the CPT MENG requirements when a student submits the CPT registration).

Internship – An internship is a full-time or part-time work experience, the work must be related to the degree, should be paid, and is typically for a set time (usually three – six months). Internship students typically do not get benefits. The experience is considered a chance for students to get experience and for employers to “try out” the student before deciding to hire them on a permanent basis.

Permanent job/permanent employment – sometimes called a full-time job, a permanent job is a paid, career-related, work experience with no set duration. Employees are hired by an employer and will typically get benefits (insurance, time off, etc.) as well as a salary.

Semester – Fall, spring, or summer terms though UC. During fall and spring terms, you must be registered with UC in order to maintain your student status. In summer terms, you do not have to registered with UC.

CPT/Internship Process

The MENG Program was designed for completion in one or two years.

- Students will have six semesters (fall, spring, summer, fall, spring, summer) to complete the MENG degree; this includes the time to complete the internship.
Therefore, students who started in fall 2015 can graduate as late as summer 2017 (August 2017), but no later, and must complete an internship or project before the end of summer 2017.

- Students who are unable to secure a job by the start of the 5th semester must initiate a project in the fifth semester.
  - Therefore, if you started in fall 2015 and you do not secure an internship by January 2017, then you need to initiate a project and plan to graduate in spring or summer.

**Very important rules about CPT**

- Students must complete two full-time semesters of classes at UC before they are eligible for CPT Work Authorization.
  - Therefore, students who started at UC in fall 2015 are not eligible to start work until May 2.
- CPT Work will only be authorized for a maximum of six months consecutively or in total.
- CPT Work authorization must be approved by CEAS (Anita Todd) and UC International.
- CPT work authorization approval takes 7 – 10 business (week) days for approval. Please make sure you apply early or set a start date to allow time to for the authorization to be approved.
- Regardless of the circumstances, CPT will not be extended beyond six months.
- Your I-20 end date cannot be earlier than a requested CPT Work authorization end date. You may have to extend your I-20 end date to cover the length of your internship.

**Capstone Internship / CPT Work Authorization**

- Work experience must be related to the students major.
- Work can be full-time or part-time.
- Students can use an internship or permanent employment towards their Capstone Internship.

**Capstone Internship / CPT Work Authorization Duration**

- Whether full-time or part-time, the maximum time that CEAS will approve for CPT is six months.
- The CPT six months does not have to be consecutive, but it must be completed by the end of the sixth semester.
- The minimum time for the experience to count as a capstone internship is 400 hours (10 weeks full-time or about 20 weeks part-time). This to ensure that students get an extensive experience that serves as a capstone.

**CPT Work Authorization**

- Once a student accepts a job, they should apply for CPT Work Authorization.
- It will take 7-10 business days for CPT to be approved through CEAS and UC.
- Any semester (summer, fall, or spring) that you are working, you must have the proper CPT work authorization.

**Documents needed to apply for CPT Work Authorization**

- You will need the following documents to apply for CPT Work Authorization
  - An offer letter from the company on company letterhead with the start date, company location, and contact information.
  - A completed CPT for MENG document
  - A completed CPT Policy Form
Instruction to apply for CPT Work Authorization

1) Once you have accepted a job, you can apply for CPT at any time.

2) Before you apply for CPT, make sure your I-20 dates extend beyond the end date of your planned internship. If they do not, then you first need to put in for an I-20 extension so that you are authorized for the extended time. Once this is done you can complete the CPT registration.

3) Before you apply for CPT, you must have the following ready (CPT will not be approved without the forms):
   a. A copy of an offer letter from the company on company letterhead that shows a start date and end date, if applicable. (For example, a full-time job will not have an end date)
   b. The company name and address, the name and contact email (preferred) or phone number for the HR contact or Hiring Manager at your employer
   c. A completed “CPT for MENG” Approval Form (available in iEngineering eForms)
      i. Note: In the Pre-Approval section, it says “Advisor Signature” – For a capstone internship, for this purpose – Anita Todd will be the advisor, so just put “Anita Todd” in as the advisor and do not worry about the signature, when it is reviewed on line, it will be signed electronically.
   d. A signed CPT Policy Form. (available in iEngineering eForms)
   e. Watch a CPT Tutorial provided by UC International at http://www.uc.edu/international/services/students/employment/cpt.html

4) Go to iBearcatsGlobal (https://ibearcatsglobal.uc.edu/istart/controllers/start/start.cfm) and click on the "login" button.
   a. Note – this is the UC international portal

5) Complete and submit your request through the international portal.
   a. When asked for your advisor – indicate it is Anita Todd email: anita.todd@uc.edu

6) Go to “iEngineering eForms” https://www.ceas3.uc.edu/iEngineering/.
   a. This is the CEAS portal

7) Complete and submit your request through the CEAS portal.

Once everything is submitted, the following will occur:
1) Anita Todd will receive an email notifying her that you have submitted a request. She will review the submission and, assuming everything is in order, she will approve the submission in “iEngineering eForms”.
   a. Note: If there is a problem with your submission, Anita will call or email you and you may have to resubmit information in one or both systems.

2) You will receive an email when Anita has approved the submission in “iEngineering eForms”.

3) A representative from UC International will review the submission and, assuming everything is in order, approve the submission in iBearcatsGlobal.

4) You will receive an email when everything is complete.

5) Once everything is approved, you are eligible to start work.
Staying registered with UC

- During the spring term of your first year (second semester), you will register for your capstone course per your degree plan/syllabus. However, you will not do your actual capstone internship until after the end of the spring semester.
- If you do your capstone internship during the summer semester, you do not have to be registered with UC.
- If you do your capstone internship during any part of the following fall or spring semester, you must be registered for a minimum of one credit during the academic year to maintain your registration and student status at UC. You will typically register for one credit of the Capstone course in the fall and that will carry you through the academic year.

Completing your Capstone Internship and obtaining a passing grade

- In order to get a passing grade for your capstone internship, you must
  - Successfully complete your internship experience (minimum 400 hours)
  - Complete an internship report
  - Complete an internship evaluation in Blackboard MENG Internship Community.
- Deadline for completion of this evaluation/report is the last day of your CPT Capstone internship, or the “MENG Final Submission” date for the semester in which you graduate (if your CPT/Capstone Internship ends at the end of the semester in which you graduate).

The Capstone Internship Grade

- Capstone internships will be graded on a pass/fail basis. You will receive a P or F grade. A grade of P is required for graduation. The P grade does not affect a student’s GPA.

Working beyond the Capstone Internship or working more than six months

- Work beyond six months of CPT will be under OPT work authorization.
- Students can work for longer than six months, or continue working on a permanent basis beyond their capstone internship, however, once CPT is complete, students must have OPT work authorization to continue employment.
- It takes up to 90 days to get OPT authorization. Students wishing to work beyond the end of their CPT work authorization must apply for OPT three months in advance with a scheduled OPT start date the day after completion of their CPT.
- If students neglect to register for OPT on time, CPT WILL NOT be extended to fill the gap in time between the original end of CPT and the beginning of OPT.
- More information about OPT can be found here: [http://www.uc.edu/international/services/students/employment/opt.html](http://www.uc.edu/international/services/students/employment/opt.html)
MME M Eng. Capstone Final Report: Internship

Student name: _______________________________  M number: M__________
[last name, first name]

UC email address: __________________________@mail.uc.edu

Degree area: __________________________________________________________

Academic year admitted: _____________ [e.g., 2016-17]

Internship Company or organization: ________________________________________

Location (city, state, country if not US): ________________________________________

Supervisor’s name: ___________________________ email: _________________________

Phone: ________________________________

Position title: ______________________________

Start date: _________________  End date: __________________

Description of duties performed: [paragraph form, not sentence fragments]
Technologies or techniques utilized in accomplishing duties: [bulleted list]

Learning/experiences in M Eng. courses that were applied during internship:
[paragraph form; cite course names and describe what aspect and how it was relevant to your duties]
COLLEGE OF ENGINEERING and APPLIED SCIENCE

Record of Master of Engineering Capstone

Name of Student: __________________________ Date: __________________________

Student Phone #: _________________________ Email address: _________________________

Program: ________________________________

Candidate for the degree of: Masters of Engineering

We testify that the candidate was examined by us and

Passed ☐ Did Not Pass ☐

Capstone Project ☐ Internship ☐ MEng Evaluation ☐ Paper ☐

Masters of Engineering Capstone Project Description Title: ________________________________

Examiners: ________________________________

Capstone Advisor / Program Advisor / Graduate Program Dir ________ Signature
Print Name

______________________________
Print Name (optional) Signature

______________________________
Print Name (Manager of MEng Programs) Signature

Program of Study in File? Yes ☐ No ☐

Baccalaureate Degree Checked? Yes ☐ No ☐

Graduate Program / Studies Director Approval: ________________________________