The rules and regulations stated in this handbook are for information only and in no way constitute a contract between the student and Cornell University. The University reserves the right to change any regulations or requirements at any time.

It is the policy of Cornell University actively to support equality of education and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The University is committed to the maintenance of affirmative-action programs that will assure the continuation of such equality of opportunity. Sexual harassment is an act of discrimination and, as such, will not be tolerated. Inquiries concerning the application of Title IX may be referred to Cornell’s Title IX coordinator at the Office Workforce Diversity, Equity and Life Quality, 160 Day Hall, Ithaca, New York 14853-2801 (Telephone: 607-255-3976).
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## APPENDICES

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Welcome to Cornell University and, in particular, to the School of Civil and Environmental Engineering. We hope your year here will be an academically rich and personally rewarding experience. This handbook has been prepared to simplify the orientation and registration process of new candidates for the Master of Engineering degree in Civil and Environmental Engineering.

1.1 The School of Civil and Environmental Engineering (CEE)

The School has a strong educational tradition and a supportive alumni network. Ranked as one of the top civil and environmental engineering departments in the United States, the School currently consists of twenty-six active faculty members and other individuals who serve as lecturers, senior research associates, and other staff. The CEE faculty and their particular specializations are listed in Appendix A. In addition, we have several thousand alumni who hold important positions in engineering, construction, research and development, manufacturing, sales, education, consulting, and government in the U.S. and around the world.

The faculty and other individuals responsible for administering the School include:

**Director, School of Civil & Environ. Engr.:** Linda Nozick, 220 Hollister, 255-3690  
**Director of Administration:** Joe Rowe, 220 Hollister, 255-0549  
**Administrative Assistant:** Jeannette Little, 220 Hollister, 255-3690  

**Director of Graduate Studies:** James Jenkins  
**Chair, Master of Engineering Program:** James Jenkins  
**Chair, Master of Engineering Program in Engineering Management:** Patrick Reed  
**Graduate Program Coordinator:** Tania Sharpsteen, 219 Hollister, 255-7560  

**Other Support Staff:**
- **Administrative Assistant:** Carl Cornell, 220 Hollister, 255-2542  
- **Accounts Administrator:** Christina Dovi, 220 Hollister, 255-3684  
- **Accounts Coordinator:** Alita Howard, 220 Hollister, 255-6192  
- **Building Coordinator:** Paul Charles, B56 Hollister, 351-6210  
- **Computer Operations Manager:** Cameron Willkins, B55 Hollister, 351-6211  

1.2 The Master of Engineering Degree in Civil & Environmental Engineering

The Master of Engineering degree is a coursework and project-oriented graduate program. It requires thirty (30) credit hours consisting of coursework in the major and supporting areas, and a project. The Master of Engineering degree is normally completed in two semesters of intensive study, but for some students a third semester may be necessary.

Master of Engineering candidates in Civil and Environmental Engineering may elect to pursue one of the following majors:
- environmental engineering (with a specialty in one of the following subject areas)
  - environmental processes
  - environmental and water resource systems engineering
  - environmental fluid mechanics and hydrology
- geotechnical engineering
- structural mechanics and materials
- transportation systems engineering

In addition to coursework in a chosen major or specialty, students will also take courses in one or more supporting areas. Supporting areas can be chosen from many disciplines, including any of the specialty areas within CEE, or in microbiology, historic preservation, operations research, computer science, economics, materials science, architecture, and engineering management, to name just a few.

The School of Civil and Environmental Engineering also offers a Master of Engineering degree in Engineering Management. That program is aimed at engineers who want to stay in a technical environment, but advance into managerial roles. Students learn to identify problems, analyze data, formulate models to understand these problems, and interpret the results of analyses for managerial action. A number of students in the M.Eng. program in Engineering Management elect to take courses in management offered by CEE, the Johnson Graduate School of Management, or the School of Industrial and Labor Relations. Appendix C provides a short description of the program in Engineering Management and a list of typical electives. A separate handbook providing more details about the program is also available from the Graduate Program Coordinator.

### 1.2.1 Preparation

Students from all fields of engineering and the physical and natural sciences are welcome in the Master of Engineering programs offered by the CEE School. However, a student without adequate preparation may be required to take additional preparatory coursework, which will be determined by faculty in the student’s chosen major. This preparatory work does not count toward the Master of Engineering graduation requirements. Any preparatory coursework that is required will be listed in a student’s letter offering admission.

### 1.2.2 Major Program Requirements

A minimum of 30 credit hours of course and project work is required for the M.Eng. degree in Civil & Environmental Engineering. This is typically the equivalent of ten 3-credit courses. Program requirements for each major concentration are given in Appendix D.

The information provided should help you develop a coursework proposal, but we encourage you to seek guidance from your advisor and other faculty members. Your advisor will work with you to develop a program consistent with your career goals and the intent of the M.Eng. program.
Enrolling in the M.Eng. program will take relatively little time for most of you. You will find the process a little more informal than undergraduate registration, with more freedom to change courses easily during the first three weeks of classes of each semester. The major steps in the process are described in the following sections.

2.1 Assignment of Advisor

You will have an advisor in your major area of concentration to help you design a program of study and generally to assist and advise you during your stay at Cornell. Advisor assignments are done within each major concentration area. You may also change your advisor with the permission of the faculty member whom you would like to serve as your new advisor.

You should set up an appointment with your advisor shortly after arriving on campus. Please do not wait until the last couple of days before classes begin. The beginning of the semester is busy for everyone, and your advisor may also be also be responsible for a number of undergraduate and other graduate students. It is your responsibility to establish a relationship with your advisor, who must approve the M.Eng. program that you propose, as well as any changes you may wish to make at a later date.

2.2 Graduate School Registration

Note that graduate registration at Cornell is a two-stage process. First, you must enroll with the Graduate School and second, you must enroll in courses. The former is on a fixed schedule, while the latter is accomplished over the first three weeks of each semester.

Graduate School Orientation (all incoming students)
Monday, August 24, Barton Hall

ID Distribution (9:30am – 10:30am)
The graduate school requests that M.Eng. students pick up their ID card between 9:30am – 10:30 am only
The Graduate School Orientation from 10:30-12:30 on this day is not relevant to M.Eng. students

International Student Orientation – August 22nd – 3:00p -7:00p at Statler Hall. For more information please visit [http://www.isso.cornell.edu/students/ctc/orientation.php#1](http://www.isso.cornell.edu/students/ctc/orientation.php#1).

NetID: You should have received your NetID and information from Cornell Information Technologies (CIT) over the summer. If you did not, please contact the CIT Office at HelpDesk@cornell.edu. E-mail messages are one of the most effective forms of communication. Please check your e-mail regularly in the event that your advisor, your professors, your colleagues, or the GPC need to get in contact with you.

Social Security Card Application: A representative of the Social Security Administration may be at Bartels Hall to help international students who are receiving any kind of financial support from Cornell apply for a U.S. Social Security Number (SSN). Bring your passport, visa documents, and a letter from the ISSO office. You may also apply for a SSN at the local SSA Office at 127 E. State Street. Once you obtain your SSN, take the card to the Graduate Program Coordinator and the University Registrar’s Office, B-7 Day Hall, to update your Cornell record.
2.3 Course Registration

Graduate students must register for courses online. You will receive details about online course enrollment upon registering with the Graduate School. Courses may be added online until September 12th. They may be dropped online until Friday, October 9th.

Any changes in your course registration after the deadlines (i.e., adds/drops, credit hour changes) requires submission of a Course Enrollment Petition to the Graduate School. The petition must be signed by both your advisor and the instructor of the course. Petitions are not automatically approved. Check Just the Facts often after your course schedule is online to verify that all information is correct, and do not wait until the last minute to submit a Course Enrollment Petition.

2.4 Planning Your M.Eng. Program

Please study the pertinent material in this handbook for both major concentration area courses and the appropriate courses outside the concentration area before seeing your advisor. It would be worthwhile to spend some time with the online course catalog (http://www.cornell.edu/academics/courses.cfm) to identify possible courses for both the Fall and Spring terms. There normally are a few changes in course offerings/time schedules made after the catalog copy is prepared. Final correct information will be posted and updated on the online course and time rosters.

Program planning is done with the aid of the M.Eng. Proposal Form appropriate for a student’s major (see Appendix D). You will fill this form out with the help of your advisor, who must also sign the form showing his/her approval of your program. Extra proposal forms can be obtained from the GPC.

Please note that except for seminars, which may be graded on an S/U basis, all courses that count towards the M.Eng. degree must be taken for a letter grade (A-F). With approval of both your advisor and the M.Eng. Chair, a maximum of two S/U-graded credit hours may be allowed, provided the seminars are “participatory” (requires more than just attending the class).

2.5 Approval of Your Course Program

After a “final” program of courses for the entire year is agreed upon with your advisor, please return the Proposal Form to the GPC by September 11th. It will then be forwarded the Chair of the Master of Engineering Program in Civil & Environmental Engineering for final approval. A copy of the approved program is returned to your faculty advisor. You may pick up a copy from your student mail folder in 220 Hollister. Original forms stay on file with the GPC.

2.6 Filing Your Course Program

You have approximately three (3) weeks after classes begin (until September 11, 2015) to enroll online for Fall 2015 classes. This time period allows you to sit in on an extra course or two, if you wish, for a couple of weeks to assist you in making up your mind about your exact program for the term.

2.7 Program Changes

Students often propose changes to their program at the start of their second semester that reflect changes in interests and/or course availability. All changes to your approved M.Eng. program must take the form of a revised proposal. All revised proposal forms must be approved by your advisor and turned into the GPC. It is important that any changes in your program be approved promptly because the current version of your proposal form that is on file serves as a check list for determining compliance with graduation
requirements. Program changes made after the Fall term to take effect in the Spring term should be submitted by February 5, 2016.

2.8 Petitions

Cornell University has a long-standing tradition of considering petitions from students relative to special situations or circumstances that could justify exceptions to the normal rules or requirements. The CEE M.Eng. Committee – a committee consisting of one faculty representative from each major – considers most petitions; others must be submitted to the College Master of Engineering Committee for a decision. The College Committee may also review petitions that are submitted to the CEE M.Eng. Committee that are not resolved to the satisfaction of the student. While we are not encouraging use of the petition route to get around requirements, we do want to point out the existence of this process. It gives everyone the opportunity of stating his/her case for special consideration, and therefore, it is a very important part of the operational procedures for students attending Cornell University.

2.9 Financial Aid and Work Obligation

Financial aid administered by the College or School can be in the form of fellowships or half-time assistantships. If you have the latter, you will be given eight hours per week of teaching assistant-related duties. M.Eng. students typically serve as graders, hold office hours, prepare labs, etc. The faculty will make assistantship assignments during the first two weeks of classes.

2.10 Grade Requirements

The College requires a minimum grade point average of 2.50 for graduation from the Master of Engineering program. Students admitted on a Provisional Basis must achieve a 3.00 average during their first term in the M.Eng. program to continue in the second term. Typical graduate student grade point averages are much higher than this. At Cornell decimal grade points are assigned to grades with (+) or (-), i.e., A+ = 4.3, A = 4, A- = 3.7, B+ = 3.3, etc.

A grade of less than C- in a course will result in no credit being granted toward satisfaction of the 30-hour minimum requirement. However, these courses are included in calculating grade point averages.

2.11 Facilities

Most of the facilities for the CEE School are housed in Hollister Hall, except for the large-scale infrastructure testing labs in the George Winter Lab (Thurston Hall). Each Master of Engineering student will have a workstation equipped with a computer in a room with other students participating on the same project. Additional computing facilities for all members of the Cornell community are located at numerous locations throughout the campus. Some of the closest sites for engineering students include Carpenter Hall (ACCEL on the 2nd floor), Upson Hall (B7), and Uris Library (Tower Room).
2.12 Room Assignments, Building Keys, and Mail Folders

Upon arrival, you will need to visit the GPC in 219 Hollister to get your office assignment. Entrance to the M.Eng. offices is via your ID card. Your ID will also open outside doors to Hollister Hall and all student lounges in Hollister Hall.

Each student will be provided a folder bearing his or her name in the graduate student mail file located in the Main Office (220 Hollister). You should check your folder frequently, not only for incoming mail, but also for messages from the M.Eng. Chair, your advisor, or other Cornell sources. This mail folder is provided for campus mail and notices. You should have your personal mail sent to your local residential address, not to Hollister Hall.

The bulletin board outside the GPC’s office is specifically for announcements relative to CEE’s graduate programs. You should get into the habit of checking this bulletin board. We try to keep it updated with program topics, seminar speaker announcements, Graduate School notices, and other important messages.

2.13 Job Placement

We are confident that the background you receive in your M.Eng. program will be of great assistance to you in the job market. Employers have always been enthusiastic about Cornell graduates with M.Eng. degrees.

The Engineering Co-op and Career Services Office (201 Carpenter Hall) offers an extensive recruitment program with many interviewers coming to campus each year. You should visit this office early in the fall term and take advantage of the excellent opportunities it offers. The University Career Services Office has a series of special lectures on how to approach the job market, how to prepare resumes, how to take interviews, etc. Announcements of these lectures and meetings will be posted throughout Hollister Hall.

Many opportunities also are available with private engineering companies, industries, and agencies that do not routinely interview on campuses because they are relatively small. Do not hesitate to ask faculty with whom you work for advice on jobs. Some of the faculty in your major area will have excellent connections to professional firms and will be happy to pass along notices they receive about jobs or to help you identify potential employers.

Job listings and descriptions are also posted on CEE’s web site: www.cee.cornell.edu. There are many routes to explore in seeking the right engineering position; the key point to remember is that you must take the initiative.

Each spring, Engineering News-Record (ENR) publishes its ranked lists of the 500 largest engineering design firms and the 400 largest construction contractors in the U.S. These listings may give you some good ideas about potential employers. It should be pointed out that not all firms are included in ENR because the information is based on a voluntary response to a questionnaire.
2.14 Professional Registration

Engineers are licensed (by examination and experience) to practice engineering in each state of the U.S. and in most international jurisdictions. Registration is very important for civil engineers because they are responsible for public safety in much of their work. Virtually all authorities require a registered professional engineer to give final approval to all plans and specifications for engineering projects. If you hold an ABET-accredited undergraduate engineering degree, you are eligible to take Part I of the examination. Successful completion earns you the title “Intern Engineer” (often called Engineer-in-Training). Because Part I emphasizes theoretical knowledge, there is a comparative advantage in taking this exam while still in school. Success or failure of this examination has no bearing on your academic standing at Cornell or elsewhere.

Many M.Eng. students will already have taken the Part I examination. If you qualify and have not taken the exam, you are encouraged to do so. The Undergraduate Programs and Student Services Office in 242 Carpenter Hall has application forms for the New York State Part I exam. You can also obtain information and an application from: www.op.nysed.gov/pefa.htm. Historically, application deadlines have been November 1 for the Spring (April) exam and May 1 for the Fall (October) exam. The Student Chapter of ASCE usually coordinates the application process and sponsors review sessions for the Spring exam.

Part II of the examination can be taken after four years of suitable engineering experience beyond the accredited undergraduate degree. Successful completion of Part II will give you the title “Professional Engineer” in the state where you took the exam. Registration in other states usually can be obtained by reciprocity, rather than by taking additional examinations. There are a few exceptions to this general policy, such as the additional required experience and separate examinations after the P.E. for licensing as a structural or geotechnical engineer (S.E. or G.E.) in California.

2.15 Miscellaneous

The Graduate School will place a “hold” on your diploma if certification of your undergraduate degree has not been received (official final transcript showing date undergraduate degree was awarded). The Graduate School will also place a hold on your diploma if you have any outstanding debts with the university, unpaid university traffic tickets or have not returned library books. Please make sure all bursar charges and library fines are paid, all Graduate School paperwork has been processed, and all library books are returned at least one week before Commencement.
3.1 Academic Integrity and Plagiarism

Absolute integrity is expected of every Cornell student in all academic undertakings. Integrity entails a firm adherence to values most essential to an academic community, including honesty with respect to the intellectual efforts of oneself and others. Both students and faculty at Cornell assume the responsibility of maintaining and furthering these values. However, a Cornell student’s submission of work for academic credit indicates that the work is their own. All outside assistance should be acknowledged, and the student’s academic position truthfully should be reported at all times. In addition, Cornell students have the right to expect academic integrity from each of their peers. It is plagiarism for anyone to represent another’s work as their own. As stated in the University Code of Academic Integrity, “The maintenance of an atmosphere of academic honor ... is the responsibility of the student and faculty ...”

Academic Integrity Policies hold regardless of whether students are working individually or in groups. It is important that faculty make clear what is expected and that students understand what authorship citations an instructor expects. To become better acquainted with academic integrity responsibilities, each student should have a copy of the Policy Notebook for Students, Faculty and Staff (available in the Dean of Student’s Office). Also, a copy of the “University Code of Academic Integrity” may be accessed on the Cornell web site at cuinfo.cornell.edu/aic.cfm

3.2 Persons With Special Needs

Cornell University is committed to assisting those persons with disabilities who have special needs. A brochure describing services for persons with disabilities may be obtained by writing to the Office of Workforce Diversity, Equity and Life Quality, Cornell University, 160 Day Hall, Ithaca, New York14853-2801. Other questions or requests for special assistance also should be directed to that office.
APPENDIX A
SCHOOL OF CEE FACULTY AND THEIR INTERESTS
(does not include retired/emeritus faculty)

John D. Albertson
113 Hollister Hall, jda59
Professor (Ph.D. California/Davis): hydrology, boundary layer meteorology, land-atmosphere interaction, turbulent transport process, wind energy.

Paul G. Carr
315 Hollister Hall, pgc3
Adjunct Associate Professor (Ph.D. Virginia Tech): construction engineering and management.

Edwin A. Cowen
119 Hollister Hall, eac20
Professor (Ph.D. Stanford): environmental fluid mechanics, wave hydrodynamics, coupled air-water transfer processes, mixing and transport processes in the environment, experimental methods.

Ricardo A. Daziano
305 Hollister Hall, rad77
Assistant Professor, (Ph.D. Laval, Quebec): pro-environmental preferences, sustainable travel behavior, renewable energy, environmentally-friendly energy sources.

Peter Diamessis
105 Hollister Hall, pjd38
Associate Professor (Ph.D, California/San Diego): environmental fluid mechanics, hydrodynamics of the coastal/open ocean and lakes, turbulence modeling, hydrodynamic instability theory, spectral methods in scientific and engineering computation, high performance parallel scientific computing.

Christopher J. Earls
365 Hollister Hall, cje23
Professor (Ph.D. Minnesota): Structural stability, computational and structural mechanics, behavior and design of metal structures

Huaizhu Gao
313 Hollister Hall, hg55
Associate Professor (Ph.D. California/Davis): transportation systems analysis, transportation and environment planning, urban traffic management.

James M. Gossett
319 Hollister Hall, img18
Professor (Ph.D. Stanford): environmental engineering, water and waste treatment, microbiological phenomena and processes, treatment of contaminated groundwater.

Mircea D. Grigoriu
363 Hollister Hall, mdg12
Professor (Ph.D. MIT): structural engineering, structural reliability, structural dynamics, random vibration, stochastic mechanics.
**Damian E. Helbling**  
324 Hollister Hall, deh262  
Assistant Professor (Ph.D. Carnegie Mellon): water quality, chemical and biological processes, transport and fate of emerging contaminants, sustainable water and wastewater treatment technologies

**Kenneth C. Hover**  
302A Hollister Hall, kch7  
Professor (Ph.D. Cornell): concrete material properties and construction techniques, durability of construction materials.

**James T. Jenkins**  
117 Hollister Hall, jti2  

**Leonard W. Lion**  
263 Hollister Hall, lw13  
Professor (Ph.D. Stanford): environmental engineering, aquatic chemistry, biogeochemical fate of toxic pollutants, interfacial reactions of pollutants in aqueous systems.

**Philip L-F. Liu**  
107 Hollister Hall, pll3  
Class of 1912 Professor in Engineering (Sc.D. MIT): fluid mechanics, wave hydrodynamics, coastal engineering, and numerical methods.

**Gregory C. McLaskey**  
369 Hollister Hall, gcm8  
Assistant Professor (Ph.D. California/Berkeley): earthquake mechanics, friction and interfaces, nondestructive testing, piezoelectric sensor calibration, acoustic emission, wave propagation, seismology and earthquake scaling.

**Linda K. Nozick**  
311 Hollister Hall, lkn3  
Professor (Ph.D. Pennsylvania): engineering management, transportation systems analysis, systems engineering.

**Thomas D. O'Rourke**  
273 Hollister Hall, tdo1  
Thomas R. Briggs Professor of Engineering (Ph.D. Illinois): earthquake engineering, geotechnical engineering and analysis, lifeline systems, soil-structure interaction, underground technologies.

**William D. Philpot**  
453 Hollister Hall, wdp2  
Professor (Ph.D. Delaware): remote sensing, digital image processing, radiative transfer.

**Patrick M. Reed**  
211 Hollister Hall, pmr82  
Professor (Ph.D. Illinois): environmental and water resources systems; multiobjective planning and management, evolutionary computation; high-performance computing; uncertainty in decision making

**Ruth E. Richardson**  
317 Hollister Hall, rer26  
Associate Professor (Ph.D. California/Berkeley): microbiology, application of molecular techniques to understand microbial activities, environmental microbiology of water and soil systems, bioremediation of
subsurface contaminants, fate and transport of microbial and chemical contaminants, Civil & Environmental Engineering.

**Christine A. Shoemaker**
210 Hollister Hall, cas12
Joseph P. Ripley Professor of Engineering (Ph.D. Southern California): modeling groundwater contamination and remediation, pesticide source reduction, optimization algorithms, supercomputing.

**Jery R. Stedinger**
213 Hollister Hall, jrs5
Dwight C. Baum Professorship in Engineering (Ph.D. Harvard): stochastic hydrology, water resource systems operations and planning, risk analysis.

**Harry E. Stewart**
271 Hollister Hall, hes1
Associate Professor (Ph.D. Massachusetts): geotechnical engineering, dynamic behavior of soils, instrumentation.

**Francis M. Vanek**
307 Hollister Hall, fmv3
Senior Lecturer and Research Associate (PhD. Pennsylvania): environmental impact of freight transportation, transportation energy, energy efficiency and renewable energy, green building, systems engineering process applied to commercial product development.

**Derek H. Warner**
373 Hollister Hall, dhw52
Associate Professor (Ph.D. Johns Hopkins): computational solid mechanics, deformation and fracture mechanisms, nanostructured materials and thin films, dynamic failure and fragmentation, massively parallel and multi-scale computing.

**Monroe Weber-Shirk**
265 Hollister Hall, mw24
Senior Lecturer & Research Associate (Ph.D. Cornell): environmental engineering, hydraulics, slow sand filtration, LabVIEW data acquisitions/control.
APPENDIX B
FIVE SEMESTER M.ENG./MBA PROGRAM

What is it?
A joint venture between the College of Engineering and the Johnson Graduate School of Management (JGSM) that allows students to acquire a Master of Engineering degree and an MBA degree in five semesters (usually based on Fall admission to the M.Eng. program). The dual-degree program consists of 75 credit hours, 30 of which comprise the regular two-semester M.Eng. program. For those admitted to the MBA program, the JGSM allows some (occasionally all) of these M.Eng. credits to be transferred to the MBA program, usually resulting in saving one semester’s time over taking the M.Eng. and MBA degree programs separately.

What are the requirements?
Applicants must have already earned a baccalaureate degree in engineering, applied science, or equivalent from Cornell or elsewhere and be accepted for admission or presently enrolled in the M.Eng. program. The two programs require separate application forms and review processes, and materials submitted to one program are not available to the other. The JGSM places great emphasis on relevant work experience, and this will be taken into consideration when evaluating applications. All requirements of the Master of Engineering (CEE) program are to be completed. No credit toward the M.Eng. degree is allowed for coursework done outside Cornell. All requirements of the Master of Business Administration curriculum are to be completed. Coursework done outside Cornell normally will not be credited toward the MBA degree.

a. If you have been admitted to or are attending the M.Eng. program, you must formally apply to the Johnson Graduate School of Management by the second semester of your M.Eng. program at the latest. You must fill out a separate JGMS application form and pay their application fee. You should also notify your M.Eng. advisor of your intention to do the MBA program so your advisor can take this into consideration when planning your M.Eng. program schedule.

b. If you have not already done so, you must apply to take the GMAT, which is required by JGSM, using January of your M.Eng. year as your last possible test date and have the scores directed to JGSM.

If you are admitted to the JGSM, your Master of Engineering degree will be awarded when all requirements of that degree are completed (usually after 2 semesters), and the Master of Business Administration degree will be awarded when all requirements of that degree are completed (usually after 3 more semesters). The two degrees cannot be awarded simultaneously.

In general, financial aid is not awarded to those doing the MBA portion of the program except through the Knight Joint Degree Scholarship Program, which has very strict requirements. Information and an application to the Scholarship Program is available on the web at:


Questions about this Scholarship Program should be directed to the Office of Research and Graduate Studies, 222 Carpenter Hall, Cornell University, Ithaca, New York 14853 (607-255-7413; engr_grad@cornell.edu)
After the award of the M.Eng. degree, CEE M.Eng. students who aspire to a leadership or management position in formulating, implementing or evaluating public policies can benefit from a program that offers an accelerated path to a Masters in Public Administration (M.P.A.) from the Cornell Institute for Public Affairs (CIPA). CIPA offers a flexible and challenging two-year program of graduate professional studies in public affairs that prepares degree recipients for careers in public affairs, public administration, and public policy.

Concentration areas offered in CIPA include Environmental Policy; Science, Technology and Infrastructure Policy; Economic and Financial Policy; International Development; and Public and Nonprofit Management.

The two degree programs (M.Eng. and M.P.A.) have separate admission processes; so you may apply to the Accelerated M.P.A. program upon completion of your first semester in the M.Eng. program. The M.Eng. students who possess an M.Eng. can obtain the M.P.A. degree in three additional semesters. Applicants should plan on meeting with the CIPA Director of Graduate Studies to discuss which M.Eng. credits would be transferable for the MPA program.

Please contact the CIPA Office at 607-255-8018 or cipa@cornell.edu to set up an appointment. More information is available on the CIPA website at www.cipa.cornell.edu.
APPENDIX D
MAJOR PROGRAM REQUIREMENTS AND FORMS

Environmental Engineering
    Environmental Fluid Mechanics & Hydrology
    Environmental Processes
    Environmental & Water Resource Systems Engineering

Geotechnical Engineering
    Structural Mechanics and Materials
    Transportation Systems Engineering
# School of Civil & Environmental Engineering - MEng Proposal Form – EP/EFM-H/EWRS

This proposal form should be signed by your advisor and submitted to the Graduate Field Coordinator (219 Hollister Hall) before the end of the 3rd week of classes. Students must submit a new form for approval anytime program changes are proposed.

<table>
<thead>
<tr>
<th>NAME: ___________________________</th>
<th>DATE: ___________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUDENT ID: ______________________</td>
<td>ADVISOR: _________________________</td>
</tr>
</tbody>
</table>

Choose one of the following TRACKS:
- [ ] Environmental Processes (EP)
- [ ] Environmental Fluid Mechanics-Hydrology (EFM-H)
- [ ] Environmental and Water Resource Systems (EWRS)

Project Title: ___________________________ Term: 20____

## PROJECT COURSES (3 and 6 credit projects available)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### COURSES in TRACK (3 required)\(^1\)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

### ADDITIONAL ENVIRONMENTAL ENGINEERING COURSES (2 required)\(^2\)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

### SUPPORTING ELECTIVES (3 or 4 required, depending on whether project is 3 or 6 credits)\(^3\)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

### SEMINARS (Indicate if Participatory or Non-Participatory)\(^4\)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 6020</td>
<td>Environmental Seminar (Non-Participatory)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ALL OTHER COURSES

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

Total Credits for all Fall & Spring Courses\(^5\) ______ ______

You must be registered for at least 12 credits each semester of your program

**TOTAL M.Eng. PROGRAM CREDIT HOURS: _____ (must equal or exceed 30)**

**APPROVALS:**
- Advisor ___________________________ Date: ___________________________
- MEng Chair ___________________________ Date: ___________________________

---

\(^1\) As specified by advisor.
\(^2\) As specified by advisor.
\(^3\) As specified by advisor.
\(^4\) As specified by advisor.
\(^5\) As specified by advisor.
*** Course number will depend on your specific concentration and occasionally the specific project. Please consult with your advisor and the Graduate Field Coordinator to make sure you sign up for the correct class.

Updated proposals should identify the specific changes that are proposed and briefly give the reason for the change.

A revised form should be submitted before the end of the third week of classes if changes are made in the second semester.

NOTES:
1 The following table shows courses in each of the three tracks: EP / EFM-H / EWRS

<table>
<thead>
<tr>
<th>EP</th>
<th>EFM-H</th>
<th>EWRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 4510 (Richardson)</td>
<td>CEE 4360*</td>
<td>CEE 5930 (Nozick)</td>
</tr>
<tr>
<td>CEE 4530*</td>
<td>CEE 6310*</td>
<td>CEE 5970 (Stedinger)</td>
</tr>
<tr>
<td>CEE 4540 (Weber-Shirk)</td>
<td>CEE 6350*</td>
<td>CEE 5980 (Reed)</td>
</tr>
<tr>
<td>CEE 6530 (Richter)</td>
<td>CEE 6360 (Cowen)</td>
<td>CEE 6200 (Reed)</td>
</tr>
<tr>
<td>CEE 6560 (Helbling)</td>
<td>CEE 6370*</td>
<td>CEE 6550 (Jenkins)</td>
</tr>
<tr>
<td>CEE 6570 (Gossett)</td>
<td>CEE 6550 (Jenkins)</td>
<td>CEE 6650 (Gao)</td>
</tr>
<tr>
<td>CEE 6580*</td>
<td>MAE 6010 (Ericksen)</td>
<td>BEE 4730 (Walter)</td>
</tr>
<tr>
<td></td>
<td>CEE 6320 (Albertson)</td>
<td>BEE 6880 (Anderson)</td>
</tr>
<tr>
<td></td>
<td>CEE 6025 (Diamessis)</td>
<td></td>
</tr>
</tbody>
</table>

*course not offered during this academic year

- Students electing the Environmental Processes (EP) track are required to take CEE 6530, CEE 6560, and CEE 6570.

- Students electing the Environmental Fluid Mechanics and Hydrology (EFM-H) track are required to take CEE 6550 and two additional courses from the EFM-H column in the table.
• Students electing the Environmental and Water Resource Systems (EWRS) track are required to take CEE 5930 and two additional courses from the EWRS column in the table. CEE 5970, CEE 5980 and CEE 6200 are strongly recommended.

• EP, EFM/H, EWRSE students generally take CEE 5910, CEE 5621, CEE 5022 CEE 5031, CEE 5032 or CEE 5051 or 5052 for the required MEng project. This choice should be made in consultation with your advisor.

2 A student must take two additional courses from among all those listed in the table.

3 A student may select his or her supporting electives from engineering and non-engineering subject areas related to environmental engineering, including biology, chemistry, toxicology, law, policy, economics, operations research, computer science, engineering mathematics, systems engineering, and city and regional planning.

4 Credit for seminars count toward the MEng degree only if the format of the seminar is “participatory” (i.e. requires more than attendance). Students are expected to take CEE 6020 Environmental Seminar (non-participatory) in the Fall and CEE 6021, or 6051 in the Spring.

5 No more than 20 credits per semester (MEng and non-MEng) may be taken except by petition to the College Master of Engineering Committee. All courses should be listed whether or not they count in the MEng program.
This proposal form should be signed by your advisor and submitted to the Graduate Field Coordinator (219 Hollister Hall) before the end of the 3rd week of classes. Students must submit a new form for approval anytime program changes are proposed.

NAME: ___________________________________________     DATE:     ________________________________
STUDENT ID: __________________________                ADVISOR:  ________________________________
Project Title: _______________________________________

### PROJECT COURSES

<table>
<thead>
<tr>
<th>Project</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>CEE 5041</td>
<td>3</td>
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</tr>
<tr>
<td>CEE 5042</td>
<td>3</td>
<td>X</td>
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### MAJOR AREA ELECTIVES (5 required)

<table>
<thead>
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<th>Cr.</th>
<th>Fall</th>
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<th>Comments</th>
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<tbody>
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</table>

### SUPPORT ELECTIVES (2 required)

<table>
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<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
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</table>

### ELECTIVE COURSE (1 required)

<table>
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<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
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<tbody>
<tr>
<td>3</td>
<td></td>
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</table>

### SEMINARS (Indicate if Participatory or Non-Participatory)

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>(1)</td>
<td>X</td>
<td></td>
<td>Non-participatory</td>
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### ALL OTHER COURSES

<table>
<thead>
<tr>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Total Credits for all Fall & Spring Courses: _____  _____

You must be registered for at least 12 credits each semester of your program.

**TOTAL M.Eng. PROGRAM CREDIT HOURS:** _____ (must equal or exceed 30)

**APPROVALS:**
Advisor ________________________________ Date: ____________________
M.Eng. Chair ________________________________ Date: ____________________
NOTES:

1 Typical additional major courses in geotechnical engineering are drawn from the following list:

- CEE 3410 Introduction to Geotechnical Engineering (Stewart)
- CEE 6400 Foundation Engineering (O’Rourke)
- CEE 6410 Retaining Structures and Slopes (O’Rourke)
- CEE 6720 Finite Element Analysis (high recommended)*
- CEE 7400 Engineering Behavior of Soils (Stewart)
- CEE 7410 Rock Engineering*
- CEE 7450 Soil Dynamics*

*Not available this academic year

2 Support areas may include any engineering or non-engineering subject area that can be reasonably justified as supporting the major area, a well-defined career objective, or plans for a PhD. Typical supporting areas include structural engineering, geology, civil infrastructure systems, and engineering management.

3 Elective course may be an additional course in the major or supporting area, or another course of interest. It may be a course in management. This course must be approved by a student’s advisor and relate in some way to the student’s academic program or career objectives.

4 Credit for seminars count toward the M.Eng. degree only if the format of the seminar is “participatory” (i.e. requires more than attendance).

5 All courses should be listed whether or not they count in the M.Eng. program. No more than 20 credits per semester (M.Eng. and non-M.Eng.) may be taken except by petition to the College Master of Engineering Committee.
School of Civil & Env. Engineering    M.Eng. Proposal Form – **Structural Mechanics and Materials**  
(a new form must be submitted when changes are made)

NAME: _______________________________    ADVISOR: _______________________________    DATE: ________  
SUPPORTING AREA: __________________________________________

This proposal form should be signed by your advisor and submitted to the Graduate Field Coordinator (219 Hollister Hall) before the end of the 3rd week of classes. Students must submit a new form for approval anytime program changes are proposed.

<table>
<thead>
<tr>
<th>MAJOR AREA ELECTIVES (Minimum of 15 credits)¹</th>
<th>Cr.</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MAE 4700 Finite Element Analysis for Mechanical and Aero.</td>
<td>3</td>
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<td></td>
<td></td>
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<tr>
<td>CEE 3720 Intermediate Solid Mechanics</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEE 5071 Professional Experience in Structural Mechanics</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>SUPPORT ELECTIVES (Maximum of 6 credits)²</th>
<th>Cr.</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</table>

<table>
<thead>
<tr>
<th>ALL OTHER COURSES</th>
<th>Cr.</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
</table>

Total Credits for all Fall & Spring Courses³  

**TOTAL M.Eng. PROGRAM CREDIT HOURS:** _____ (must equal or exceed 30)

You must be registered for at least 12 credits each semester of your program

**APPROVALS:**  
Advisor _______________________________    Date _______________________________

MEng Chair _______________________________    Date _______________________________

See notes on back. Updated proposals should identify what changes were made and why.
NOTES:

1 CEE 3720 and MAE 4700 are required courses, to be taken in fall term. Project course CEE5071 is required during winter term: no exceptions.

Typical additional major courses for the M.Eng. in Structural Mechanics and Materials are drawn from the following list (actual availability depends on staffing in each given semester):

- MAE 6110: Foundations of Solid Mechanics (Fall) (Silberstein)
- CEE 4770: Composite Materials (Fall) (not offered Fall 2015)*
- BEE 4810: LRFD – Based Engineering of Wood Structures (Spring) (Gebremedhin)
- CS 3220: Introduction to Scientific Computation (Spring) (Weatherspoon)
- CS 4210: Numerical Analysis and Differential Equations (Fall) (Vladimirsky)
- CEE6000: Numerical Methods for Engineers (Fall) (not offered Fall 2015)*
- CEE 6730: Design of Concrete Structures (Fall) (Hover)
- CEE 6750: Concrete Materials and Construction (Spring) (Hover)
- CEE 6780: Structural Dynamics and Earthquake Engineering (Spring) (Grigoriu)
- CEE 7750: Nonlinear Finite Element Analysis: Solids (Spring) (Warner)
- CEE 7790: Nonlinear Finite Element Analysis: Structures (Fall) (Earls)
- CEE 7710: Stochastic Problems Engineering and Science (Fall) (not offered Fall 2015)*
- CEE 7740: Advanced Structural Concrete (Spring) (Hover)
- MAE 6810: Methods of Applied Mathematics I (Fall, Spring) (not offered Sp16) (Phoenix)
- MSE 6020: Elasticity, Plasticity, and Fracture (Spring) (not offered Fall 2015)*
- CEE 6760/MAE-MSE/6550: Advanced Composite Materials (Spring) (Phoenix)
- MAE 5010: Future Energy Systems (Fall) (not offered Fall 2015)*
- MAE 6640: Mechanics of Bone (Spring) (not offered Spring 2016)*
- BME 5810: Soft Tissue Biomechanics (Spring) (not offered Spring 2016)*

*not offered 2015/16

2 Support areas may include any engineering or non-engineering subject area that can be reasonably justified as supporting the major area, a well-defined career objective, or plans for a PhD. Typical supporting areas include theoretical and applied mechanics, applied mathematics, computer science, fluid mechanics, material science, and engineering management.

3 All courses should be listed whether or not they count in the MEng program. No more than 20 credits per semester (MEng and non-MEng) may be taken except by petition to the College Master of Engineering Committee.
School of Civil & Environmental Engineering  MEng Proposal Form – Transportation Systems

This proposal form should be signed by your advisor and submitted to the Graduate Field Coordinator (219 Hollister Hall) before the end of the 3rd week of classes. Students must submit a new form for approval anytime program changes are proposed.

NAME: ___________________________________________     DATE: ________________________________

STUDENT ID: __________________________                            ADVISOR:  ______________________________

Project Title: _______________________________________      Term: 20_____

<table>
<thead>
<tr>
<th>PROJECT COURSES (minimum of 3 credits)</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 5061 Project (Fall)</td>
<td></td>
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<tr>
<td>CEE 5062 Project (Spring)</td>
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</table>

<table>
<thead>
<tr>
<th>TRANSPORTATION CORE COURSES (3 required)</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
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</table>

<table>
<thead>
<tr>
<th>SUPPORTING ELECTIVES (6 required)</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
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</table>

<table>
<thead>
<tr>
<th>SEMINARS (Indicate if Participatory or Non-Participatory)</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ALL OTHER COURSES</th>
<th>Cr.</th>
<th>Fall</th>
<th>Spr.</th>
<th>Comments</th>
</tr>
</thead>
</table>

Total Credits for all Fall & Spring Courses 5 ________________

TOTAL M.Eng. PROGRAM CREDIT HOURS: _____ (must equal or exceed 30)

You must be registered for at least 12 credits each semester of your program

APPROVALS:  Advisor _____________________________     Date _______________________

M.Eng. Chair _____________________________     Date _______________________

See notes. Updated proposals should identify the specific changes that are proposed and briefly give the reason for the change.
NOTES:

1 A project of at least 3 credits is required. In some cases, specific projects may be defined whose scope justifies more than 3 credits.

2 Transportation Systems courses include CEE 4630 Future Transportation Technologies Systems, CEE 6620 Urban Transportation Network Design & Anal., CEE 6650 Environment/Energy and Transportation Planning, and CEE 6640 Microeconomics of Discrete Choice. CEE 6065 Special Topics in Transportation can be used to pursue an independent study on a particular transportation topic if you and your advisor agree that this is appropriate. The selection of appropriate transportation core courses will depend on your background, and will be determined in discussion with your advisor.

3 Supporting electives should be selected from one or more related areas. Typical areas include Operations Research, Economics, City and Regional Planning, Johnson School of Management, and other areas of CEE. Some commonly chosen courses include:

AEM 4170 Decision Models for Small and Large Businesses*
AEM 4320 Public Private Sector Economics Linkages*
AEM 6330 Devolution, Privatization, & the New Public Management*

CEE 5290 Heuristic Methods for Optimization*
CEE 5900 Project Management
CEE 5970 Risk Analysis and Management (Stedinger)
CEE 6930 Public Systems Modeling (Loucks)

CRP 5040 Urban Economics (Brooks)
CRP 5080 Introduction to Geographic Information Systems (West)
CRP 5170 Economic Development*
CRP 5190 Urban Theory and Spatial Development (Campanella)
CRP 5520 Land Use Planning*
CRP 5840 Green Cities (Kniep)
CRP 6090 Urban and Regional Theory*
CRP 6860 Planning for Sustainable Transportation*

ECON 3540 Economics of Regulation*
ECON 6090 Microeconomic Theory I*

NBA 6410 Supply Chain Management (Thomas)

ORIE 5300 Optimization I (Trotter)
ORIE 5310 Optimization II (Trotter)
ORIE 5510 Introduction to Stochastic Processes (Dai)
ORIE 4580 Simulation Modeling & Analysis (Henderson)

*course not offered 2015/16

4 Credit for seminars count toward the MEng degree only if the format of the seminar is “participatory” (i.e. requires more than attendance).

5 All courses should be listed whether or not they count in the MEng program. No more than 20 credits per semester (MEng and non-MEng) may be taken except by petition to the College Master of Engineering Committee.
OVERALL LISTING OF CEE COURSE INFORMATION:

For an up to date listing of all CEE courses, please visit:
https://classes.cornell.edu/browse/roster/FA15/subject/CEE
(please note that the CEE spring 2016 course roster will be available by mid-September.

All other course listings/rosters for the Fall 2015 term can be found at
https://classes.cornell.edu/browse/roster/FA15 with the spring courses being available by mid-September.