

**EHE Master's Checklist and Certificate of Departmental Approval
(updated 3-1-19)**

Name: _____

Conferral Date: _____ Degree MS, MSE, or MA: _____

Advisor: _____

Formal Master's Thesis: Y or N

MSE Concentration:

- Contaminant Fate and Transport
- Environmental Process Engineering
- Water Resources Engineering
- Environmental Management & Economics

MS Concentration:

- Environmental Science
- Environmental Science & Policy

Requirements:

You must have a minimum of 30 credits of coursework; at least 15 credits within EHE.

Course #	Course Title	Grade	Sem/Yr	Cr/Hr

Optional Master's Essay/Thesis Title (if thesis has been formally submitted to library):

This is to certify that _____ has satisfied all of the academic requirements for a Master's degree in Geography and Environmental Engineering.

Advisor's Signature

Date

Chair's Signature

Date

M.A. Degree

The M.A. degree is open to students with undergraduate degrees in social sciences or the humanities. It requires:

- a minimum of 30 credits including *no more than* 1 credit of seminar, 1 credit of intersession course work, and 6 credits of independent research counting towards the 30 credits.
- at least 50% of the required 30 credits must come from courses within the department
- students are permitted to apply up to two classes with a grade of “C” towards their degree.
- Up to 2 semesters of AAP or EP courses can be taken and counted to receive a Masters degree as long as there is sufficient rigor as deemed by the advisor. Students must have written consent from advisor (an email will suffice) prior to signing up for the course.

M.A. students have the option to complete an independent research project, submitted as a formal essay. Students can focus on one of the department's areas of interest, study, or research or construct their own program that complements and expands their undergraduate experience; three semesters are typically required to complete the degree. Each program of study is planned by the student in consultation with department faculty and must be approved by the faculty advisor.

Master of Science (M.S.) Degree

The M.S. degree is open to students with undergraduate degrees in engineering, mathematics, biology, chemistry, physics, geology, and other scientific disciplines. The M.S. degree program includes the following requirements:

- a minimum of 30 credits including *no more than* 1 credit of seminar, 1 credit of intersession course work, and 6 credits of independent research counting towards the 30 credits.
- at least 50% of the required 30 credits must come from courses within the department
- students are permitted to apply up to two classes with a grade of “C” towards their degree.
- Up to 2 semesters of AAP or EP courses can be taken and counted to receive a Masters degree as long as there is sufficient rigor as deemed by the advisor. Students must have written consent from advisor (an email will suffice) prior to signing up for the course.

M.S. students have the option to complete an independent research project, submitted as a formal essay. A minimum of two semesters is required to complete the M.S. degree without the research project option. Three to four semesters are typically required to complete the degree with a research project.

M.S. students are strongly recommended to take as prerequisites for the M.S. program mathematics through differential equations and computing skills. Additionally, M.S. students who choose to follow Contaminate Fate and Transport, Environmental Process Engineering, and Water Resources Engineering concentrations, are encouraged to take an introductory fluid mechanics course. Each individual's program of study is planned by the student in consultation with department faculty and must be approved by the faculty advisor. Specific course recommendations exist for the following concentrations (MS students must choose one): Environmental Science, Environmental Science & Policy

Master of Science in Engineering (M.S.E.) Degree

The M.S.E. degree is open to students with an ABET-accredited undergraduate engineering degree or demonstrated equivalent. The M.S.E. degree program includes the following

requirements:

- a minimum of 30 credits including *no more than* 1 credit of seminar, 1 credit of intersession course work, and 6 credits of independent research counting towards the 30 credits
- at least 50% of the required 30 credits must come from courses within the department
- students are permitted to apply up to two classes with a grade of “C” towards their degree
- 5-6 required courses and 4-5 recommended elective courses depending on concentration (Note: In order to substitute an alternate course for a recommended elective, students must receive written approval from their advisor.)
- prerequisites (required) for the M.S.E. program include mathematics through differential equations and computing skills
- Up to 2 semesters of AAP or EP courses can be taken and counted to receive a Masters degree as long as there is sufficient rigor as deemed by the advisor. Students must have written consent from advisor (an email will suffice) prior to signing up for the course.

The M.S.E. program is typically a nine month program based on course work alone. However, M.S.E. students have the option to complete an independent research project, submitted as a formal essay or group project report. An M.S.E. degree with significant research components will usually require three to four semesters for completion and is generally intended for those students planning to work in engineering practice. Each individual's program of study is planned by the student in consultation with department faculty and must be approved by the faculty advisor. M.S.E. students select from the concentrations below. Specific, MHEC approved course requirements exist for the following concentrations (MSE students must chose one): Contaminant Fate & Transport, Environmental Management & Economics, Environmental Process Engineering, and Water Resources Engineering.