**UNIVERSITY OF HOUSTON ENVIRONMENTAL ENGINEERING DEGREE PLAN (MS)**

**Date**:

**Name: CougarID:**

**FT/ PT Thesis/Non-Thesis Engineer/Non-Engineer**

**Leveling Courses (Non-Engineer)**

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| --- | --- | --- | --- |
| Cr. Hrs. | Course | Semester | Grade |
|  | CIVE 2330 Mechanics I |  |  |
|  | CIVE 2331 Mechanics II |  |  |
|  | CIVE 2332 Mechanics of Deformable Bodies |  |  |
|  | CIVE 3434 Fluid Mechanics and Hydraulic Engineering |  |  |
|  | ELEE 2336 Electrical Circuits and Systems |  |  |
|  | ENGI 2334 Thermodynamics |  |  |

\*MECE 3400 may substitute for CIVE 2330,CIVE 2331, and CIVE 2332 with director’s permission.

**Required Courses (All Environmental Engineering Students)**

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| --- | --- | --- | --- |
| Cr. Hrs. | Course | Semester | Grade |
| 1 | CIVE 6111 Environmental Engineering Seminar |  |  |
| 1 | CIVE 6111 Environmental Engineering Seminar |  |  |
| 3 | CIVE 6361 Engineering Hydrology |  |  |
| 3 | CIVE 6377 Environmental Chemistry |  |  |
| 3 | CIVE 6378 Principles of Environmental Modeling |  |  |
| 3 | CIVE 6391 Environmental Engineering Microbiology |  |  |

**Required Courses (Thesis Students Only)**

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| Cr. Hrs. | Course | Semester | Grade |
|  | CIVE 6x98 MS Research |  |  |
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|  | CIVE 6x98 MS Research |  |  |
|  | CIVE 6399 M.S. Thesis I |  |  |
|  | CIVE 7399 M.S. Thesis II |  |  |

**Approved Electives (4 must be from this list, non-engineers take as many as possible from this list)**

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| Cr. Hrs. | Course | Semester | Grade |
|  | CIVE 4333 Water and Wastewater Treatment (non-civil engineers only) |  |  |
|  | CIVE 5360 Urban Regional Planning |  |  |
|  | CIVE 6322 Storm Water Management |  |  |
|  | CIVE 6331 Hydraulics of Open Channel Flow |  |  |
|  | CIVE 6363 Evaluation of Water Quality in Natural Waters |  |  |
|  | CIVE 6370 Environmental Fluid Mechanics |  |  |
|  | CIVE 6371 River Mechanics and Sediment Transport |  |  |
|  | CIVE 6383 Advanced Planning and Design of Water Resource Systems |  |  |
|  | CIVE 6387 Physicochemical Treatment Processes |  |  |
|  | CIVE 6388 Solid and Hazardous Waste Treatment Processes |  |  |
|  | CIVE 6390 Municipal Drinking Water Treatment |  |  |
|  | CIVE 6392 Mass Transfer in Environmental Systems |  |  |
|  | CIVE 7332 Groundwater Contaminant Transport |  |  |
|  | CIVE 7335 Coastal Hydrodynamics |  |  |
|  | CIVE 7337 Advanced Environmental Engineering Microbiology |  |  |
|  | CIVE 7342 Engineering Geographic Information Systems |  |  |
|  | CIVE 7397 Hazardous Waste Management and Risk Assessment |  |  |
|  | CHEE 6390 Energy and the Environment |  |  |
|  | INDE 6335 Engineering Administration |  |  |
|  | **Total Hours** |  |  |

**Approved Electives (2 courses1)**

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| --- | --- | --- | --- |
| Cr. Hrs. | Course | Semester | Grade |
|  |  |  |  |
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**1** A suggested list can be found at <http://cee.egr.uh.edu/programs/environmental-graduate/MSEEotherelective>

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**Approved, Advisor, Date Approved, Director, Date**

Thesis Students 24 hrs + 6 hrs thesis + 2 hrs seminar = 32 hrs; 6 hrs of electives must be in CIVE

Non-Thesis Students 30 hrs + 2 hrs seminar = 32 hrs; **12 hrs of electives must be in CIVE**

Minimum GPA 3.00

Electives All electives require advisor approval.