# Interdisciplinary Minor in Hydrogen Technology

**IMHT**

## Name
(please print): ____________________________________________________________________________

(Last)                                                   (First)                                                   (Middle)

Student Number: ___________________________

Primary Major: ___________________________

Expected Major Completion Term: _________________

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### Required Courses (Select 4-6 credits):

- ___ ENT 1960 Alternative Fuels Group (1)
- ___ ENT 2950 Alternative Fuels Group (1)
- ___ ENT 2960 Alternative Fuels Group (1)
- ___ ENT 3950 Alternative Fuels Group (1)
- ___ ENT 3960 Alternative Fuels Group (1)
- ___ ENT 4900 Alternative Fuels Group (2)
- ___ ENT 4910 Alternative Fuels Group (2)
- ___ ENT 4950 Alternative Fuels Group (2)
- ___ ENT 4960 Alternative Fuels Group (2)
- ___ ENT 4961 Alternative Fuels Group (1)

### Elective Courses (Continued):

- ___ MEEM 3210 Fluid Mechanics (3)
- ___ MEEM 3230 Heat Transfer (3)
- ___ MEEM 3999 MEEM Undergrad Research Proj. (3)**
- ___ MEEM 4220 Internal Combustion Engines I (3)
- ___ MET 3250 Applied Fluid Mechanics (4)
- ___ MET 4300 Applied Heat Transfer (3)
- ___ MET 4390 Internal Combustion Engines (3)
- ___ MET 4900 Alternative Energy systems (3)
- ___ MY 3100 Materials Processing I (4)
- ___ MY 3110 Materials Processing II (4)
- ___ MY 4140 Science of Ceramic Materials (3)
- ___ MY 4990 MSE Undergraduate Research (1-6)**
- ___ SS 3800 Energy Technology and Policy (3)*

*Students are encouraged, though not required, to take at least one of these courses relating to the broader context and societal impacts of hydrogen technology.

** Topics must be approved by the minor program coordinator.

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Courses listed in this minor have the following prerequisites (shown in parenthesis). Concurrency is illustrated by the letter C: ENT4961 (ENT3950 and ENT3960 and ENT4950 and ENT4960), CM/ENT3974 (CH1100 or CH1110 or CH1150), CM/ENT3977 (PH2200 and (CH1100 or CH1110 or CH1150)), CM/ENT3978 (PH2200 and (CH1100 or CH1110 or CH1150)), CM1110 (CM2120 and PH2100 and (MA3520 or 3521 or 3530 or 3560)), CM1120 (CM3110 and (MA3520 or 3521 or 3530 or 3560)), CM1410 (CM120 and CM130), CM550 (CHE2400 or CHE2410) and CM551 (C), EF4620 (EC3001 or EC3002 or EC3003 and UN2002), EE2110 (EE2150 and (MA3520 or 3521 or 3530 or 3560), EE3130 (EE2110 or EE3010), EE3221 (EE2110 or EE3010), EET2120 (EET1120 and (MA1161 (C) or MA1161(C), EET131 (EET1141 or EET2311 or TBT2220), EET3390 (EET2333), ENGSS 4510 (UN2002), ENTD975 (ENG102), MEEM3210 (MEEM2200 and MEEM2700 (C)), MEEM3220 (MEEM3210 and (MA3520 or equivalent)), MEEM4220 (MEEM3210, MET2250 (MET2130), MET2300 (MET5600), MET4390 (MET5600 (C), MET4900 (MET5600), MY3100 (MY2100), MY3140 (MY2100), MY4140 (MY2100), MY5410 (MEEM2200 or MY3100 or CM3230), SS3800 (UN2002))

Refer to the University Catalog for information on university minor requirements.

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Credits Required = 16

Total Credits _______

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Student Signature: ___________________________

Date: ___________________________

Minor Advisor Signature: ___________________________

Date: ___________________________

Academic Year 2009-10

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### Elective Courses: Select remaining credits from the list below:

- ___ CM 3110 Transport/Unit Operations I (3)
- ___ CM 3120 Transport/Unit Operations II (3)
- ___ CM 4000 Chemical Engineering Research (1-3)**
- ___ CM 4310 Chemical Process Safety/Environment (3)*
- ___ CM 4550 Industrial Chemical Production (3)
- ___ EC 4620 Energy Economics (3)*
- ___ EE 2110 Electrical Circuits (3)
- ___ EE 3010 Circuits and Instrumentation (3)
- ___ EE 3120 Introduction to Energy Systems (3)
- ___ EE 3221 Introduction to Motor Drives (3)
- ___ EE 4000 Electrical Eng. Undergraduate Research (1-4)**
- ___ EET 2120 Circuits II (4)
- ___ EET 3131 Instrumentation (3)
- ___ EET 3390 Power Systems (3)
- ___ ENG/SS 4510 Sustainable Futures I (3)*
- ___ ENG/SS 4520 Sustainable Futures II (3)*
- ___ ENT 3956 Industrial Health and Safety (2)*
- ___ ENT 3975 Intro to Vehicle Design & System Modeling (1)

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Total Credits _______

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Date: ___________________________

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Date: ___________________________

Academic Year 2009-10

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### Elective Courses: Select remaining credits from the list below:

- ___ CM 3110 Transport/Unit Operations I (3)
- ___ CM 3120 Transport/Unit Operations II (3)
- ___ CM 4000 Chemical Engineering Research (1-3)**
- ___ CM 4310 Chemical Process Safety/Environment (3)*
- ___ CM 4550 Industrial Chemical Production (3)
- ___ EC 4620 Energy Economics (3)*
- ___ EE 2110 Electrical Circuits (3)
- ___ EE 3010 Circuits and Instrumentation (3)
- ___ EE 3120 Introduction to Energy Systems (3)
- ___ EE 3221 Introduction to Motor Drives (3)
- ___ EE 4000 Electrical Eng. Undergraduate Research (1-4)**
- ___ EET 2120 Circuits II (4)
- ___ EET 3131 Instrumentation (3)
- ___ EET 3390 Power Systems (3)
- ___ ENG/SS 4510 Sustainable Futures I (3)*
- ___ ENG/SS 4520 Sustainable Futures II (3)*
- ___ ENT 3956 Industrial Health and Safety (2)*
- ___ ENT 3975 Intro to Vehicle Design & System Modeling (1)

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Student Signature: ___________________________

Date: ___________________________

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Date: ___________________________

Academic Year 2009-10