

**Catalog Year 2018-2019**

AAS On Site Power Generation

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is an efficient strategy only. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Elective, and university requirements (see pg.2) are based on Catalog Year.

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| **Course Subject and Title** | **Cr.**  | **Min.** **Grade** | **\*GE,** **UU or UM** | **\*\*Sem. Offered** | **Prerequisite** | **Co Requisite** |
| Semester One |
| GE Objective 2: COMM 1101 Principles of Speech | 3 |  | GE |  |  |  |
| DESL 0101: Safety and Introduction to Shop Practices | 2 |  |  |  |  |  |
| DESL 0102: Introduction to Electrical | 1 |  |  |  |  |  |
| DESL 0103: Electrical Systems | 3 |  |  |  |  |  |
| DESL 0107: Basic Diesel Electrical Systems | 2 |  |  |  |  |  |
| DESL 0207: Advanced Diesel Electrical Systems | 2 |  |  |  | DESL 0102, DESL 0103 | DESL 0115, DESL 0215 |
| DESL 0125: Heavy Duty Power Trains | 8 |  |  |  |  |  |
|  Total | **21** |  |  |  |  |  |
| Semester Two |
| GE Objective 6: Social and Behavioral Ways of Knowing | 3 |  | GE |  |  |  |
| DESL 0109: Cab Climate Control | 2 |  |  |  |  |  |
| DESL 0113: Diesel Engine Fuel Systems | 2 |  |  |  |  |  |
| DESL 0217: Advanced Engine Electronics | 4 |  |  |  | DESL 0107, DESL 0107, DESL 0109, DESL 0113, DESL 0125, DESL 0184, DESL 0186, and DESL 0190 |  |
| DESL 0184: Diesel Engine Technology | 5 |  |  |  |  |  |
| DESL 0186: Diesel Engine Electrical Systems | 2 |  |  |  | DESL 0184, DESL 0190 | DESL 0101 |
| DESL 0190: Diesel Engine Emission Systems | 1 |  |  |  | DESL 0101 |  |
|  Total | **19** |  |  |  |  |  |
| Semester Three |
| GE Objective 3: Mathematical Ways of Knowing | 3 |  | GE |  |  |  |
| DESL 0117: Heavy Duty Brake Systems | 2 |  |  |  |  |  |
| DESL 0115: Basic Hydraulics I  | 2 |  |  |  |  |  |
| DESL 0215: Advanced Diesel Hydraulics  | 4 |  |  |  | DESL 0101, DESL 0107 | DESL 0109, DESL 0113, DESL 0125, DESL 0184, DESL 0186, DESL 0190 |
| DESL 0231/DESL 0232: Live Work Capstone Class or Internship | 8 |  |  |  |  |  |
|  Total | **19** |  |  |  |  |  |
| Semester Four |
| GE Objective 1: ENGL 1101 English Composition | 3 |  | GE |  | Appropriate Placement Score |  |
| Elective GE: Any Objective Not Previously Applied | 3 |  | GE |  |  |  |
| DESL 0241: On Site Power Generation I | 8 |  |  | D |  |  |
| DESL 0243: On Site Power Generation II | 8 |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  Total | **22** |  |  |  |  |  |
| \*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major\*\*See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)  |

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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****\* Satisfy 1, 2, 3, 6 and 3 cr. from 4, 5, 7 or 8** | **15 Cr.****Min** |
| **MAJOR REQUIREMENTS** |  | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) | 3 |
| DESL 0101: Introduction to Diesel Technology | 2 |   |  |
| DESL 0102: Introduction to Electrical | 1 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| DESL 0103: Electrical Systems | 3 | 3. Mathematics (3 cr. min)  | 3 |
| DESL 0107: Basic Diesel Electrical Systems | 2 | 4. Humanities, Fine Arts, Foreign Lang. |
| DESL 0109: Cab Climate Control | 2 |  |  |
| DESL 0113: Diesel Engine Fuel Systems | 2 |  |  |
| DESL 0115: Basic Hydraulics I | 2 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)**  |
| DESL 0117: Heavy Duty Brake Systems | 2 |  |  |
| DESL 0125: Heavy Duty Power Trains | 8 |  |  |
| DESL 0184: Diesel Engine Technology | 5 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** | 3 |
| DESL 0186: Diesel Engine Electrical Systems | 2 |  |
| DESL 0190: Diesel Engine Emission Systems | 1 |  |  |
| DESL 0207: Advanced Diesel Electrical Systems | 2 | **One Course from EITHER Objective 7 OR 8** |  |
| DESL 0215: Advanced Diesel Hydraulics | 4 | 7. Critical Thinking  |
| DESL 0217: Advanced Engine Electronics | 4 | 8. Information Literacy  |  |
| DESL 0231/DESL 0232: Live Work Capstone Class or Internship | 8 | 9. Cultural Diversity  |
| DESL 0241: On Site Power Generation I | 8 |  |
| DESL 0243: On Site Power Generation II | 8 | General Education Elective to reach 15 cr. min.  | 3 |
|  |  |   |  |
|  |  |  **Total GE** | **15** |
|  |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |
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|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 66 |
|  |  | General Education  | 15 |
|  |  | Free Electives to reach 60 credits | 0 |
|  |  |  TOTAL | **81** |
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|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 15 cr. General Education Objectives (Associate) |  |
|  |  | Minimum 60 cr. Total (Associate) |  |  |
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| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
|  |  | *Date* |
|  | *Department:*  |  |
|  | *CAA or COT:* | TIM 08/02/2018 |
|  | *Registrar:*  |  |
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 Form Revised 1.24.2018