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| |  |  | | --- | --- | | **Housatonic Community College**  Course Selection Guide for **2012-2013** **Liberal Arts & Sciences:  Pre-Engineering Science Concentration**  Associate in Arts Degree  (Banner code: EB47) **(Must be printed and filled out manually)** | | | Name | Banner ID No. | | Address | Program Entry Date | |  | Advisor |   **Placement Assessment:**   |  |  |  |  | | --- | --- | --- | --- | | MAT\* 075 (DS091) \_\_\_\_\_ | MAT\* 095 (DS095) \_\_\_\_\_ | DS099 \_\_\_\_\_ |  | | ENG\* 003(DS010) \_\_\_\_\_ | ENG\* 013 (DS050) \_\_\_\_\_ | ENG\* 043 (EN100R) \_\_\_\_ | ENG\* 073 (DS 011) \_\_\_\_\_ |   **Program Requirements :**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Semester Taken | Course No. | Grade | Course Number (Previous No.) | Course Title | Credits | | ***Freshman Year*** | | | | | | |  |  |  | **ENG\* E101** (EN 101) | Composition | 3 | |  |  |  | **MAT\* E254** (MA 201) | Calculus I | 4 | |  |  |  | **PHY\* E221** (PH 205) **1** | Calculus-Based Physics I | 4 | |  |  |  | **CHE\* E121** (CH 121) | General Chemistry I | 4 | |  |  |  | **ENG\* E102** (EN 102) | Literature & Composition | 3 | |  |  |  | **MAT\* E256** (MA 202) | Calculus II | 4 | |  |  |  | **PHY\* E222** (PH 206) **1** | Calculus-Based Physics II | 4 | |  |  |  | **CSC\* E106** (CS 107) | Structured Programming | 3 | |  |  |  | **CHE\* E122** (CH 122) | General Chemistry II | 4 | | ***Sophomore Year*** | | | | | | |  |  |  | **Fine Arts** | Elective | 3 | |  |  |  | **MAT\* E268** (MA 203) | Calculus III: Multivariable | 4 | |  |  |  | **Social Science** | Elective (ECN\*, GEO\*, POL\*, HIS\*) | 3 | |  |  |  | **Humanities** | Elective | 3 | |  |  |  | **MAT\* E285** (MA 204) | Differential Equations | 3 | |  |  |  | **Behavioral Science** | Elective (PSY\*, SOC\*, ANT\*) | 3 | |  |  |  | **Humanities** | Elective | 3 | |  |  |  | **Open (2 courses)** | Electives | 6 | | **Total Credits** | | | | | 61 |   **Note:** Students planning to enter this program should have a strong background in high school algebra, geometry, trigonometry and functions, and in physics and chemistry. Their total high school record should indicate an ability to succeed in the Engineering Program. One year of foreign language is recommended.  **1** This course is offered in the SUMMER SESSION ONLY at HCC. It may also be taken at another Community College.**Note:** For degree completion the student must complete the Computer Literacy Requirement. |

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