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| |  |  | | --- | --- | | **Housatonic Community College** 2005-2006 Course Selection Guide for  **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**1** (PH 205) | 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**1** (PH 206) | 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 | |  |  |  | ES 205**1** | Introduction to Statics | 3 | |  |  |  | Social Science | Elective (ECN\*, GEO\*, POL\*, HIS\*) | 3 | |  |  |  | Humanities | Elective | 3 | |  |  |  | MAT\* E285 (MA 204) | Differential Equations | 3 | |  |  |  | ES 206**1** | Introduction to Dynamics | 3 | |  |  |  | Behavioral Science | Elective (PSY\*, SOC\*, ANT\*) | 3 | |  |  |  | Humanities | Elective | 3 | |  |  |  | Open (2 courses) | Electives | 6 | | **Total Credits** | | | | | 67 |   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 not offered at HCC and should be taken at another Community College. |

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