## General Education Requirements

### Written Communication (6 hours) 010

**Lee College**
- Writing Composition I
- Writing Composition II

**UHD**
- Composition I
- Composition II

### Oral Communication (3 hours) 011

Select one of the following:
- Introduction to Speech Communication
- Principles of Public Speaking
- Business & Professional Communication
- Interpersonal Communication

### Mathematics (4 hours) 020

See Basic Mathematics and Science List

### Natural Science (8 hours) 030

See Basic Mathematics and Science List

### Humanities (3 hours) 040

For a complete list of all fully transferable Lee College Humanities core course options check the 2012-2013 Catalog.

**NOTE:** Students should consider taking a sophomore literature class to meet future prerequisites.

### Visual and Performing Arts (3 hours) 050

Select one of the following:
- Architectural Design
- Performing Arts
- Music

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**Transfer Guide**

**Lee College & UHD**

**Bachelor of Science in Chemistry**

**2012-2013**

Students pursuing a Bachelor of Science degree in Chemistry at the University of Houston-Downtown are strongly encouraged to complete an Associate degree before transferring to UHD. The Associate degree provides a solid foundation through the traditional liberal arts education, and Associate degree core curriculum courses taken at Lee College will transfer to UHD. Studies indicate students who complete an Associate degree are more likely to successfully complete a Bachelors degree.

### General Education Requirements

#### Common Core Requirements (38 hours)

**Lee College**
- Written Communication (6 hours) 010
- ENGL 1301 English Composition I
- ENGL 1302 English Composition II

**UHD**
- Written Communication (6 hours) 010
- ENG 1301 Composition I
- ENG 1302 Composition II

**Oral Communication (3 hours) 011**

Select one of the following:
- Introduction to Speech Communication
- Principles of Public Speaking
- Business & Professional Communication
- Interpersonal Communication

Any course taken to complete this core component not listed above will satisfy the requirement at UHD.

For a complete list of all fully transferable Lee College Communication courses and options check the 2012-2013 Catalog.

**Mathematics (4 hours) 020**

See Basic Mathematics and Science List

**Natural Science (8 hours) 030**

See Basic Mathematics and Science List

**Humanities (3 hours) 040**

For a complete list of all fully transferable Lee College Humanities core course options check the 2012-2013 Catalog.

**NOTE:** Students should consider taking a sophomore literature class to meet future prerequisites.

**Visual and Performing Arts (3 hours) 050**

Select one of the following:
- Architectural Design
- Performing Arts
- Music

**ART, DRA or MUS**
American History (6 hours) 060
HIST 1301 History of the U.S. to 1877
HIST 1302 History of the U.S. Since 1877
HIST 2301 History of Texas

(Select 6 hours with 3 hours from U.S. History)

Government (6 hours) 070
GOVT 2301 American Government I
GOVT 2302 American Government II

Social/Behavioral Science (3 hours) 080
Select one of the following:
GEOG 1303 World Regional Geography
PSYC 2301 Introduction to Psychology
SOCI 1301 Introductory to Sociology

Any course taken to complete this core component not listed above will satisfy the requirement at UHD.

For a complete list of all fully transferable Lee College Social/Behavioral courses and options check the 2012-2013 catalog.

Kinesiology (1 hour) 090
Any One hour KINE course

For a complete list of all fully transferable Lee College KINE course options check the 2012-2013 Lee College Catalog.

Computer Literacy (4 hours) See Basic Mathematics and Science List

A transfer student who has successfully completed all of the common core requirements at Lee College or another institution of higher education will satisfy all the UHD common core requirements. If not all of the common core requirements have been completed prior to the transfer, each core course transferred will be credited and will satisfy the corresponding common core requirements at UHD. Remaining UHD Common Core requirements must be satisfied. All prerequisites for UHD courses must be met.

Courses not listed on this sheet that satisfy core curriculum components (see italicized number) satisfy the equivalent component at the transferring institution or as free elective.

Technical Writing
Select one of the following:
ENG 3302 Business & Technical Report Writing
ENG 3325 Medical Writing
ENG 3326 Proposal Writing
ENG 3329 Environmental Writing
ENG 4306 Science Writing
and
CHEM 3320 Environmental Chemistry

Basic Mathematics and Science

<table>
<thead>
<tr>
<th>COSC 1436 Programming Fundamentals I (fulfills Core)*</th>
<th>CS 1410 CS I-Introduction to Computer Science with C++ (fulfills Core)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2413 Calculus I with Analytic Geometry (fulfills Core)*</td>
<td>STAT 3311 Statistical Analysis for Natural Science</td>
</tr>
<tr>
<td>MATH 2314 Calculus II with Analytic Geometry</td>
<td>MATH 2401 Calculus I (fulfills Core)*</td>
</tr>
<tr>
<td>MATH 2315 Calculus III with Analytic Geometry</td>
<td>MATH 2402 Calculus II</td>
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<tr>
<td>BIOL 1406 General Biology I</td>
<td>MATH 2403 Calculus III</td>
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<tr>
<td>BIOL 1407 General Biology II</td>
<td>BIOL 1301/1101 General Biology I w/Lab</td>
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<tr>
<td>CHEM 1411 General Chemistry I (fulfills Core)*</td>
<td>BIOL 1302/1102 General Biology II w/Lab</td>
</tr>
<tr>
<td>CHEM 1412 General Chemistry II (fulfills Core)*</td>
<td>CHEM 1308/1108 General Chemistry II (fulfills Core)*</td>
</tr>
<tr>
<td>PHYS 1401 College Physics I: Mechanics and Heat or</td>
<td>PHYS 1307/1107 General Physics w/Lab I or</td>
</tr>
<tr>
<td>PHYS 2425 University Physics I</td>
<td>PHYS 2401/2101 Physics I w/Lab</td>
</tr>
<tr>
<td>PHYS 1402 College Physics II: Sound, Electricity, Magnetism, Light, and Modern Physics or</td>
<td>PHYS 1308/1107 General Physics w/Lab II or</td>
</tr>
<tr>
<td>PHYS 2426 University Physics II</td>
<td>PHYS 2402/2102 Physics II w/Lab</td>
</tr>
</tbody>
</table>

Major Area of Emphasis

CHEM 3300 Undergraduate Research
CHEM 3301/3201 Organic Chemistry I w/Lab
CHEM 3302/3202 Organic Chemistry II w/Lab
CHEM 3310/3130 Quantitative Analysis
CHEM 3320 Environmental Chemistry
CHEM 3330/3130 Physical Chemistry I w/Lab
CHEM 3332/3132 Physical Chemistry II w/Lab
CHEM 4410 Instrumental Methods of Analysis
CHEM 4340/4140 General Biochemistry I w/Lab
CHEM 4362/4162 Advanced Inorganic Chemistry w/Lab
CHEM 4364 Polymer Chemistry

Electives

Three hours, which degree coordinator must approve. Students are encouraged to use an appropriate field experience or undergraduate research course to satisfy this requirement. BIOL/CHEM 4390 must be approved for the degree plan in writing by your Faculty Advisor.

*Course has prerequisite not listed on this worksheet

** These courses satisfy the Sophomore Literature requirement and the World Community course requirement for the degree plan.

Courses taken at Lee College do not transfer as Upper-Level credits.
In the Common Core the Department of Natural Science recommends that students complete the courses highlighted in gray.

Check with your advisor about how requirements from the Associate of Arts, the Associate of Science, and whether requirements from the Associate of Applied Science may be applied.

For a complete list of all Academic Requirements and criteria for the College of Sciences and Technology, Natural Sciences Department, located at 813-North, call 713-221-8015, or visit the UHD web site at www.uhd.edu/sciences/ns

Revised 9/18/12