Transfer Guide
Lee College & UHD
Bachelor of Science in Mathematics
2012-2013

Students pursuing a Bachelor of Science degree in Mathematics 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.

Common Core Requirements (46 hours)

<table>
<thead>
<tr>
<th>Lee College</th>
<th>UHD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication (6 hours) 010</td>
<td>Written Communication (6 hours) 010</td>
</tr>
<tr>
<td>ENGL 1301 English Composition I</td>
<td>ENG 1301 Composition I</td>
</tr>
<tr>
<td>ENGL 1302 English Composition II</td>
<td>ENG 1302 Composition II</td>
</tr>
</tbody>
</table>

Oral Communication (3 hours) 011

Select one of the following:

| SPCH 1311 Introduction to Speech Communication  |
| SPCH 1315 Principles of Public Speaking        |
| SPCH 1321 Business & Professional 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

| MATH 2305 Discrete Mathematics                  |
|                                              |

Natural Science (8 hours) 030

Note: Eight hours of lab sciences for science majors in the same natural science* approved by the CMS department advisor.

| BIOL, CHEM, GEOL, MBIO, or PHYS                 |
|                                              |

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.

| Any literature class                           |
|                                              |

Visual and Performing Arts (3 hours) 050

Select one of the following:

| Select one of the following:                  |
|                                              |

* Any course taken to complete this core component not listed above will satisfy the requirement at UHD.
ARCH, ARTS, DRAM 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 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)
COSC 1436 Programming Fundamentals I

Computer Literacy (4 hours) 090
COSC 1410 CS I-Introduction to Computer Science w/C++

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
responding 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.

Mathematical Sciences Requirements (46 hours)
MATH 2413 Calculus I with Analytic Geometry
MATH 2414 Calculus II With Analytic Geometry
MATH 2415 Calculus III with Analytic Geometry
MATH 2305 Discrete Mathematics (counted in Common Core)

Mathematical Sciences Requirements (46 hours)
MATH 2401 Calculus I
MATH 2402 Calculus II
MATH 2403 Calculus III
MATH 2405 Discrete Mathematics (counted in Common Core)
MATH 2318 Linear Algebra
MATH 2407 Linear Algebra
MATH 3301 Differential Equations
MATH 3302 Probability and Statistics
MATH 3306 Introduction to Modern Algebra
MATH 3307 Introduction to Real Analysis
MATH 4395 Senior Project
MATH 3000 or 4000
MATH 3000 or 4000
MATH 3000 or 4000
MATH 3000 or 4000
MATH 3000 or 4000

(For course options check the UHD Catalog or Department Academic Advisor.)

Enhancement Course Requirements (3 hours)
At least one of: PHIL 2305 Introduction to Ethics, PHIL 3301 Moral Issues, or MATH 4294 Senior Seminar

Additional Natural Science Requirements (6 hours)
In addition to the natural science courses counted in the common core, 6 additional hours of approved natural sciences classes are required.

Minor (18 hours minimum)
Any university approved minor may be chosen to satisfy this requirement.

Free Electives (Enough hours to complete a minimum of 120 hours)
Students seeking Secondary Education Certification (33 hours) should complete a formal application in the Urban Education Department, and may replace the minor with the following:
(Courses in each block must be taken concurrently)
Pre-Block courses
SOSE 3306 Culture of the Urban School
ETC 3301 Educational Technology
PED 3301 Introduction to Special Populations
READ 3309 Teaching Reading in the Content Areas 4-12

Block I
SED 3301
SED 3312 Organizing and Managing the Classroom Environment in

Block II
SED 3302 Instructional Design to promote Student Learning
SED 3307 Secondary Teacher roles in Assessment & Profession
Block III
READ 4321 Literacy across the Curriculum 8-12
SED 4301 Student Teaching in the Secondary Classroom
SED 4302 Student Teaching in the Secondary Classroom

Students selecting this option may have to take PSY 1303 (Introduction to Psychology) to satisfy the Social/Behavioral Sciences component of the Common Core Requirements.

**NOTE:** No grade of "D" is permitted in any Computer Science, Mathematics, or Statistics course.

*Courses taken at Lee College do not transfer as Upper Level credits.*

**NOTE:** (1) All course hours are counted only once toward the minimum of 120 hours. (2) Any substitutions or waivers to this degree plan must be approved by the CMS Department Chair and/or Dean.

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, Computer and Mathematical Sciences Department, located in Room 705-South, call 713-221-8012, or visit the web site at www.cms@uhd.edu.

*Revised 9/18/12*