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

Students pursuing a Bachelor of Arts 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 Bachelor's degree.

Common Core Requirements (44 hours)

Lee College

Written Communication (6 hours) 010
ENGL 1301 English Composition I
ENGL 1302 English Composition II

Oral Communication (3 hours) 011
Select one of the following:
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Principles of Public Speaking
SPCH 1318 Interpersonal Communication
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 (3 hours) 020
MATH 2305 Discrete Mathematics

Natural Science (8 hours) 030
Two lecture/laboratory courses from
BIOL, CHEM, GEOL, ENVR, or PHYS
(Note: Lecture must include lab hours or have a co-requisite of 1-2 hours labs)

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 Natural Science courses and options check the 2012-2013 Catalog.

Humanities (3 hours) 040
For a complete list of all fully transferable LC Humanities core course options check the 2012-2013 Catalog.

NOTE: Students should consider taking a sophomore traditional liberal arts education, and Associate degree core curriculum courses taken at Lee College will transfer to UHD.

Common Core Requirements (44 hours)

UHD

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

Oral Communication (3 hours) 011
Select one of the following:
COMM 1304 Introduction to Speech Communication
COMM 1306 Beginning Public Speaking
COMM 2309 Interpersonal Communication
COMM 3306 Business & Professional Speech Comm

Mathematics (4 hours) 020
MATH 2405 Discrete Mathematics (counted in Common Core)

Natural Science (6 hours) 030
Two lecture/laboratory courses from
BIOL, CHEM, GEOL, or PHYS
(Note: Lecture must include lab hours or have a co-requisite of 1-2 hours labs)

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 UHD Natural Science courses and options check the 2012-2013 Catalog.

Humanities (3 hours) 040
Any literature class

For a complete list of all fully transferable LC Humanities core course options check the 2012-2013 Catalog.
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual and Performing Arts (3 hours) 050</td>
<td></td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ARCH, ARTS, DRAM or MUS</td>
</tr>
<tr>
<td>American History (6 hours) 060</td>
<td></td>
<td>HIST 1301 History of the U.S. to 1877</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIST 1302 History of the U.S. Since 1877</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HIST 2301 History of Texas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Select 6 hours with 3 hours from U.S. History)</td>
</tr>
<tr>
<td>Government (6 hours) 070</td>
<td></td>
<td>GOVT 2301 American Government I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GOVT 2302 American Government II</td>
</tr>
<tr>
<td>Social/Behavioral Science (3 hours) 080</td>
<td></td>
<td>Select one of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GEOG 1303 World Regional Geography</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSYC 2301 Introduction to Psychology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SOCI 1301 Introductory Sociology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Any course taken to complete this core component not listed above will satisfy the requirement at UHD.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For a complete list of all fully transferable Lee College Social/Behavioral courses and options check the 2012-2013 catalog.</td>
</tr>
<tr>
<td>Computer Literacy (4 hours) 090</td>
<td></td>
<td>COSC 1436 Programing Fundamentals I</td>
</tr>
<tr>
<td>Kinesiology (1 hour) 090</td>
<td></td>
<td>Any One hour KINE course</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For a complete list of all fully transferable Lee College KINE course options check the 2012-2013 Lee College Catalog.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Sciences Requirements (46 hours)</td>
<td></td>
<td>MATH 2413 Calculus I with Analytic Geometry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MATH 2401 Calculus I</td>
</tr>
</tbody>
</table>
MATH 2414 Calculus II with Analytic Geometry
MATH 2415 Calculus III with Analytic Geometry
MATH 2305 Discrete Mathematics (counted in Common Core)
MATH 2318 Linear Algebra

MATH 2402 Calculus II
MATH 2403 Calculus III
MATH 2405 Discrete Mathematics (counted in Common Core)
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 in Mathematics
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)

Humanities Requirements (9 hours)
Must include at least one of: PHIL 2305 Introduction to ethics
PHIL 3301 Moral Issues, MATH 4294 Senior Seminar.
HUM
HUM
HUM

Chosen from at least 2 areas: humanities/visual & performing arts; political/social sciences; behavioral science; English & speech; languages.

Approved Minor (minimum 18 hours)
Any university approved minor may be chosen to satisfy this requirement. Please refer to the UHD Catalog for minors and requirements.

Free Electives (enough to complete 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 Organization and Managing the classroom Environment in the Secondary School

**BLOCK II**
SED 3302 Instructional Design to Promote Student Learning  
SED 3307 Secondary Teacher roles in Assessment and 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.

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

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

**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 Chain 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.