## Transfer Guide

### WCJC & UHD

### Bachelor of Arts in Mathematics

2012-2013 Catalog

Students pursuing a Bachelor of Arts degree in Mathematics at the University of Houston-Downtown are strongly encouraged to complete the Associate Degree before transferring to UHD. The degree provides a solid foundation through the traditional liberal arts education, and Associate Degree core curriculum courses taken at Wharton County Junior 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)

**WCJC**

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

- **Oral Communication (3 hours)** 011  
  *SPCH 1315 Public Speaking*

- **Mathematics (4 hours)** 020  
  *See list of math courses*

- **Natural Science (8 hours)** 030  
  *Note: Eight hours of lab sciences approved by the CMS department advisor.*  
  *BIOL, CHEM, GEOL, or PHYS*

- **Humanities (3 hours)** 040  
  *For a complete list of all fully transferable WCJC 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 3 hours from one of the following:*  
  *ARTS, DANCE, DRAM or MUSI*

- **American History (6 hours)** 060  
  *HIST 1301 U.S. History I*  
  *HIST 1302 U.S. History II*

- **Government (6 hours)** 070  
  *GOVT 2301 American, National and State Government: Constitutions, Federalism and Participation*  
  *GOVT 2302 American, National and State Government: Institutions, Rights and Public Policies*

- **Social/Behavioral Science (3 hours)** 080  
  *Select one of the following:*  
  *ANTH 2351 Cultural Anthropology*  
  *GEOG 1303 World Geography*  
  *PSYC 2301 Introduction to General Psychology*  
  *SOCI 1301 Introduction 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 the Social and Behavioral Science core courses options check the WCJC 2011-2012 catalog.*

**UHD**

- **Communications (9 hours)** 010  
  *ENG 1301 Composition I*  
  *ENG 1302 Composition II*

- **Oral Communication (3 hours)** 011  
  *COMM 1306 Beginning Public Speaking*

- **Mathematics (4 hours)** 020  
  *MATH 2405 Discrete Mathematics*

- **Natural Science (6 hours)** 030  
  *Note: Six hours of lab sciences approved by the CMS department advisor.*  
  *BIOL, CHEM, GEOL, or PHYS*

- **Humanities (3 hours)** 040  
  *Any literature class*

- **Visual & Performing Arts (3 hours)** 050  
  *Select 3 hours from one of the following:*  
  *ART, DRA or MUS*

- **US History (6 hours)** 060  
  *HIST 1305 United States History to 1877*  
  *HIST 1306 United States History after 1877*

- **Political Science (6 hours)** 070  
  *POLS 2303 United States Government I*  
  *POLS 2304 United States Government II*

- **Social/Behavioral Science (3 hours)** 080  
  *Select one of the following:*  
  *ANTH 2302 Cultural Anthropology*  
  *GEOG 1302 World Geography*  
  *PSY 1303 Introduction to Psychology*  
  *SOCI 1303 Introduction to Sociology*

**Kinesiology (1 hour)** 090
Check the WCJC 2012-2013 catalog for a complete list of all kinesiology course options.

Computer Literacy (4 hours)  
See List of Computer Science Courses

Computer Literacy (4 hours) 090  
See List of Computer Science Courses

A transfer student who has successfully completed all of the common core requirements at WCJC 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 electives.

Mathematical Sciences Requirements (46 hours)  
MATH 2413 Calculus I  
MATH 2414 Calculus II  
MATH 2415 Calculus III  
MATH 2318 Linear Algebra  
(any of the above course listed will count as 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 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  
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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 sciences; 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 Educations Certification (33 hrs) 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
Courses taken at Wharton County Junior 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.

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