MOLECULAR BIOLOGY and HEALTHCARE MANAGEMENT (BS)  
(Double Major)

School of Natural Sciences and Mathematics

2020-2021 Transfer Plan using the Texas Common Course Numbering System

This transfer plan is intended as a general guide for UT DALLAS' lower-division major requirements and Core Curriculum requirements. Please consult the current online UT DALLAS catalog for complete degree plan requirements.

http://catalog.utdallas.edu/2020/undergraduate/programs

<table>
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<tr>
<th>UT DALLAS REQUIREMENT</th>
<th>TCCNS COURSE EQUIVALENT**</th>
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I. UT DALLAS CORE CURRICULUM REQUIREMENTS: 42 semester credit hours

**Communication: 6 semester credit hours 010 Core Code**

Choose 6 semester credit hours from the following:

- COMM 1311 Survey of Oral & Technology-based Communication
- COMM 1315 Public Speaking
- RHET 1302 Rhetoric
- SPCH 1311
- SPCH 1315
- ENGL 1302*

*(ENGL 1301 is prerequisite to ENGL 1302 and must be completed prior to taking ENGL 1302. ENGL 1301 can be used to satisfy three semester credit hours of the Communication Core Curriculum requirement.)

**Mathematics: 3 semester credit hours 020 Core Code**

- MATH 2417* Calculus I (Accelerated)
- MATH 2413* Differential Calculus

*(MATH 2417 or MATH 2413 is a required major preparatory course - noted in Section II below - that also fulfills the three-semester-credit-hour Mathematics Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)

**Life and Physical Sciences: 6 semester credit hours 030 Core Code**

- CHEM 1311* General Chemistry I
- CHEM 1312* General Chemistry II

*(CHEM 1311 and CHEM 1312 are required major preparatory courses - noted in Section II below - that also fulfill the six-semester-credit-hour Life and Physical Sciences Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)

**Language, Philosophy, and Culture: 3 semester credit hours 040 Core Code**

Choose one course from the following:

- HUMA 1301 Exploration of the Humanities
- LIT 2331 Introduction to World Literature
- PHIL 1301 Introduction to Philosophy
- PHIL 1305 Introduction to Philosophy of Religion
- PHIL 1306 Introduction to Ethics
- PHIL 2316 History of Philosophy I

Or: select 3 semester credit hours from other TCCNS core options:

- ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, HIST 2311, HIST 2312, HIST 2321, HIST 2322, PHIL 1304, PHIL 2307.

**Creative Arts: 3 semester credit hours 050 Core Code**

Choose one course from the following:

- AHST 1303 Survey/Western Art History: Ancient-Medieval
- AHST 1304 Survey/Western Art History: Renaissance-Modern
- ARTS 1301 Exploration of the Arts
- DANC 1305 Introduction to World Dance Forms
- DANC 1310 Understanding Dance
- FILM 2332 Understanding Film
- MUSI 1306 Understanding Music
- THEA 1310 Understanding Theatre

Or: select 3 semester credit hours from other TCCNS core options:

- ARCH 1301, ARCH 1302, DRAM 2361, DRAM 2362, HUMA 1315, MUSI 1308, MUSI 1309.

**American History: 6 semester credit hours 060 Core Code**

Texas Legislative Mandate

Choose two courses from the following:

- HIST 1301 US History Survey to Civil War
- HIST 1302 US History Survey from Civil War
- HIST 2301 History of Texas
- HIST 2381 African-American History

**Government/Political Science: 6 semester credit hours 070 Core Code**

Texas Legislative Mandate*

- GOVT 2305 American National Government
- GOVT 2306 State and Local Government

*The six-semester-credit-hour government course mandate requires study of the Constitution of the United States and the Constitution of Texas. (See UT DALLAS Departmental Advisor if you have questions)
## II. UT DALLAS MAJOR REQUIREMENTS: 89-90 semester credit hours

### Biology Major Preparatory Courses: 20-21 semester credit hours beyond Core Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1311/1111</td>
<td>General Chemistry I w/lab</td>
</tr>
<tr>
<td>CHEM 1312/1112</td>
<td>General Chemistry II w/lab</td>
</tr>
<tr>
<td>CHEM 2323/2123</td>
<td>Introductory Organic Chemistry I w/lab</td>
</tr>
<tr>
<td>CHEM 2325/2125</td>
<td>Introductory Organic Chemistry II w/lab</td>
</tr>
<tr>
<td>MATH 2417</td>
<td>Calculus I (Accelerated)</td>
</tr>
<tr>
<td>or MATH 2413</td>
<td>Differential Calculus</td>
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<tr>
<td>MATH 2419</td>
<td>Calculus II (Accelerated)</td>
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<tr>
<td>or MATH 2414</td>
<td>Integral Calculus</td>
</tr>
<tr>
<td>PHYS 2325/2125</td>
<td>Mechanics w/lab</td>
</tr>
<tr>
<td>PHYS 2326/2125</td>
<td>Electromagnetism and Waves w/lab</td>
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### Biology Core Courses (lower-division):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 2311/2111*</td>
<td>Introduction to Modern Biology I w/Workshop</td>
</tr>
<tr>
<td>BIOL 2322/2122*</td>
<td>Introduction to Modern Biology II w/Workshop</td>
</tr>
<tr>
<td>BIOL 2281*</td>
<td>Introductory Biology Laboratory</td>
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### Business Major Preparatory Courses: 12 semester credit hours beyond Core Curriculum

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACCT 2301</td>
<td>Introductory Financial Accounting</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Introductory Management Accounting</td>
</tr>
<tr>
<td>BLAW 2301</td>
<td>Business and Public Law</td>
</tr>
<tr>
<td>OPRE 3360</td>
<td>Managerial Methods in Decision Making</td>
</tr>
<tr>
<td>or STAT 2332</td>
<td>Introductory Statistics for Life Sciences</td>
</tr>
<tr>
<td>or STAT 3360</td>
<td>Probability &amp; Statistics for Management &amp; Economics</td>
</tr>
</tbody>
</table>

### And choose two courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BA 1310</td>
<td>Making Choices in Free Market Systems</td>
</tr>
<tr>
<td>BA 1320</td>
<td>Business in a Global World</td>
</tr>
<tr>
<td>ECON 2301</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>Principles of Microeconomics</td>
</tr>
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(See UT DALLAS Departmental Advisor for upper-division course requirements)

## III. UT DALLAS ELECTIVE REQUIREMENTS: 21 semester credit hours

### Internship:

A pre-approved Internship is required for all Naveen Jindal School of Management majors.

Must register for internship credit for zero semester credit hours.

### Community Engagement Experience:

A community engagement experience is required for all Naveen Jindal School of Management majors.

Must register for community engagement experience credit for zero semester credit hours.

### Guided Electives: 21 semester credit hours

All students must complete at least 51 semester credit hours of upper-division courses to qualify for graduation.

(See UT DALLAS Departmental Advisor)

## A MINIMUM OF 152-153 SEMESTER CREDIT HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION SEMESTER CREDIT HOURS.

**PLEASE NOTE:**

Transfer Core options listed reflect the TCCNS courses only, as approved at UT DALLAS.

Other Texas public colleges or universities may individually interpret some TCCNS courses in a different core category, which UT DALLAS will honor. Check with a UT DALLAS academic advisor to verify this.

Other courses that may potentially qualify for core requirements must be approved by a UT DALLAS academic advisor or the department housing the student's major.

Completion of the entire Core Curriculum at another Texas public college or university will substitute for completion of UT DALLAS' Core Curriculum.

TCCNS courses in Field of Study (FOS) programs will transfer to UT DALLAS.

UT DALLAS does not accept vocational or technical courses in certificate or applied science programs, nor Workforce Education (WECM) courses, nor developmental courses.