

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



School of Natural Sciences and Mathematics

## 2019-2020 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/2019/undergraduate/programs>

UT DALLAS REQUIREMENT	TCCNS COURSE EQUIVALENT**
<b>I. UT DALLAS CORE CURRICULUM REQUIREMENTS: 42 semester credit hours</b>	
<b>Communication: 6 semester credit hours</b> <span style="float: right;"><b>010 Core Code</b></span>	
<b>COMM 1315</b> Public Speaking <b>or COMM 1311</b> Survey of Oral & Technology-based Communication <b>RHET 1302</b> Rhetoric	<b>SPCH 1315</b> <b>SPCH 1311</b> <b>ENGL 1302*</b> <i>*(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.)</i>
<b>Mathematics: 3 semester credit hours</b> <span style="float: right;"><b>020 Core Code</b></span>	
<b>MATH 2413*</b> Differential Calculus <i>*(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.)</i>	<b>MATH 2413 or 2313</b>
<b>Life and Physical Sciences: 6 semester credit hours</b> <span style="float: right;"><b>030 Core Code</b></span>	
<b>CHEM 1311*</b> General Chemistry I <b>CHEM 1312*</b> General Chemistry II <i>*(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.)</i>	<b>CHEM 1311 or 1411</b> <b>CHEM 1312 or 1412</b>
<b>Language, Philosophy, and Culture: 3 semester credit hours</b> <span style="float: right;"><b>040 Core Code</b></span>	
<b>Choose one course from the following:</b> <b>HUMA 1301</b> Exploration of the Humanities <b>LIT 2331</b> Introduction to World Literature <b>PHIL 1301</b> Introduction to Philosophy <b>PHIL 1305</b> Introduction to Philosophy of Religion <b>PHIL 1306</b> Introduction to Ethics <b>PHIL 2316</b> History of Philosophy I	<b>HUMA 1301</b> <b>ENGL 2331</b> <b>PHIL 1301</b> <b>PHIL 2321</b> <b>PHIL 2306</b> <b>PHIL 2316</b> <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.</i>
<b>Creative Arts: 3 semester credit hours</b> <span style="float: right;"><b>050 Core Code</b></span>	
<b>Choose one course from the following:</b> <b>AHST 1303</b> Survey/Western Art History: Ancient-Medieval <b>AHST 1304</b> Survey/Western Art History: Renaissance-Modern <b>ARTS 1301</b> Exploration of the Arts <b>DANC 1305</b> Introduction to World Dance Forms <b>DANC 1310</b> Understanding Dance <b>FILM 2332</b> Understanding Film <b>MUSI 1306</b> Understanding Music <b>THEA 1310</b> Understanding Theatre	<b>ARTS 1303</b> <b>ARTS 1304</b> <b>ARTS 1301</b> <b>DANC 1305</b> <b>DANC 2303</b> <b>DRAM 2366</b> <b>MUSI 1306</b> <b>DRAM 1310</b> <i>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.</i>
<b>American History: 6 semester credit hours</b> <span style="float: right;"><b>060 Core Code</b></span>	
<b>Texas Legislative Mandate</b> <b>Choose two courses from the following:</b> <b>HIST 1301</b> US History Survey to Civil War <b>HIST 1302</b> US History Survey from Civil War <b>HIST 2301</b> History of Texas <b>HIST 2381</b> African-American History	<b>HIST 1301</b> <b>HIST 1302</b> <b>HIST 2301</b> <b>HIST 2381</b>
<b>Government/Political Science: 6 semester credit hours</b> <span style="float: right;"><b>070 Core Code</b></span>	
<b>Texas Legislative Mandate*</b> <b>GOVT 2305</b> American National Government <b>GOVT 2306</b> State and Local Government <i>*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)</i>	<b>GOVT 2305</b> <b>GOVT 2306</b>

<b>UT DALLAS REQUIREMENT</b>	<b>TCCNS COURSE EQUIVALENT**</b>
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<b>Social and Behavioral Sciences: 3 semester credit hours</b>	<b>080 Core Code</b>
<p><b>Choose one course from the following:</b></p> <p><b>BA 1310*</b> Making Choices in Free Market Systems</p> <p><b>BA 1320*</b> Business in a Global World</p> <p><b>ECON 2301*</b> Principles of Macroeconomics</p> <p><b>ECON 2302*</b> Principles of Microeconomics</p> <p><i>*(BA 1310 or BA 1320 or ECON 2301 or ECON 2302 is a required major preparatory course - noted in Section II below - that also fulfills the three-semester-credit-hour Social and Behavioral Sciences Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)</i></p>	<p>N/A</p> <p>N/A</p> <p><b>ECON 2301</b></p> <p><b>ECON 2302</b></p>

<b>Component Area Option: 6 semester credit hours</b>	<b>090 Core Code</b>
<p><b>Choose two courses from the following:</b></p> <p><b>BA 1310*</b> Making Choices in Free Market Systems</p> <p><b>BA 1320*</b> Business in a Global World</p> <p><b>ECON 2301*</b> Principles of Macroeconomics</p> <p><b>ECON 2302*</b> Principles of Microeconomics</p> <p><b>MATH 2414*</b> Integral Calculus</p> <p><i>*(BA 1310, BA 1320, ECON 2301, ECON 2302, and MATH 2414 are required major preparatory courses - noted in Section II below - that also fulfill the six-semester-credit-hour Component Area Option Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.)</i></p>	<p>N/A</p> <p>N/A</p> <p><b>ECON 2301</b></p> <p><b>ECON 2302</b></p> <p><b>MATH 2414 or 2314</b></p>

<b>II. UT DALLAS MAJOR REQUIREMENTS: 87-88 semester credit hours</b>
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<b>Biology Major Preparatory Courses: 20-21 semester credit hours beyond Core Curriculum</b>	
<p><b>CHEM 1311/1111</b> General Chemistry I w/lab</p> <p><b>CHEM 1312/1112</b> General Chemistry II w/lab</p> <p><b>CHEM 2323/2123</b> Introductory Organic Chemistry I w/lab</p> <p><b>CHEM 2325/2125</b> Introductory Organic Chemistry II w/lab</p> <p><b>MATH 2413</b> Differential Calculus</p> <p><b>MATH 2414</b> Integral Calculus</p> <p><b>PHYS 2325/2125</b> Mechanics w/lab</p> <p><b>or PHYS 1301/2125</b> College Physics I w/lab</p> <p><b>PHYS 2326/2126</b> Electromagnetism and Waves w/lab</p> <p><b>or PHYS 1302/2126</b> College Physics II w/lab</p>	<p><b>CHEM 1311/1111 or 1411</b></p> <p><b>CHEM 1312/1112 or 1412</b></p> <p><b>CHEM 2323/2123 or 2423</b></p> <p><b>CHEM 2325/2125 or 2425</b></p> <p><b>MATH 2413 or 2313</b></p> <p><b>MATH 2414 or 2314</b></p> <p><b>PHYS 2325/2125 or 2425</b></p> <p><b>or PHYS 1301/1101 or 1401</b></p> <p><b>PHYS 2326/2126 or 2426</b></p> <p><b>or PHYS 1302/1102 or 1402</b></p>
<b>Biology Core Courses (lower-division):</b>	
<p><b>BIOL 2311/2111*</b> Introduction to Modern Biology I w/Workshop</p> <p><b>BIOL 2312/2112*</b> Introduction to Modern Biology II w/Workshop</p> <p><b>BIOL 2281^</b> Introductory Biology Laboratory</p> <p><i>*(BIOL 1306/1106 or 1406 and BIOL 1307/1107 or 1407 will transfer to UT DALLAS as BIOL 2311 &amp; BIOL 1106 and BIOL 2312 &amp; 1107 respectively, and will satisfy the lower-division major requirement. The workshops, BIOL 2111 and BIOL 2112, are not required for transfer students.)</i></p> <p><i>^(BIOL 2281 is required for transfer biology majors who have not completed the two-hour biology majors lab requirement prior to transfer to UT DALLAS.)</i></p>	<p><b>BIOL 1306/1106* or 1406*</b></p> <p><b>BIOL 1307/1107* or 1407*</b></p> <p><b>BIOL 1106 &amp; 1107^ or labs of BIOL 1406 &amp; 1407^</b></p>

<b>Business Major Preparatory Courses: 12 semester credit hours beyond Core Curriculum</b>	
<p><b>ACCT 2301</b> Introductory Financial Accounting</p> <p><b>ACCT 2302</b> Introductory Management Accounting</p> <p><b>BLAW 2301</b> Business and Public Law</p> <p><b>BA 1310</b> Making Choices in Free Market Systems</p> <p><b>or ECON 2302</b> Principles of Microeconomics</p> <p><b>BA 1320</b> Business in a Global World</p> <p><b>or ECON 2301</b> Principles of Macroeconomics</p> <p><b>OPRE 3360</b> Managerial Methods in Decision Making</p> <p><b>or STAT 2332</b> Introductory Statistics for Life Sciences</p> <p><b>or STAT 3360</b> Probability &amp; Statistics for Management &amp; Economics</p>	<p><b>ACCT 2301 or 2401</b></p> <p><b>ACCT 2302 or 2402</b></p> <p><b>BUSI 2301</b></p> <p>N/A</p> <p><b>ECON 2302</b></p> <p>N/A</p> <p><b>ECON 2301</b></p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
(See UT DALLAS Departmental Advisor for upper-division course requirements)	

<b>III. UT DALLAS ELECTIVE REQUIREMENTS: 18 semester credit hours</b>
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<b>Internship:</b>	A pre-approved Internship is required for all Naveen Jindal School of Management majors. Must register for internship credit for zero semester credit hours.
<b>Community Engagement Experience:</b>	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.
<b>Guided Electives:</b>	All students must complete at least 51 semester credit hours of upper-division courses to graduate. (See UT DALLAS Departmental Advisor)

<b>A MINIMUM OF 147-148 SEMESTER CREDIT HOURS IS REQUIRED FOR GRADUATION WITH AT LEAST 51 UPPER-DIVISION SEMESTER CREDIT HOURS.</b>
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<p><b>**PLEASE NOTE:</b></p> <p>Transfer Core options listed reflect the TCCNS courses only, as approved at UT DALLAS.</p> <p>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.</p> <p>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.</p> <p>Completion of the entire Core Curriculum at another Texas public college or university will substitute for completion of UT DALLAS' Core Curriculum.</p> <p>TCCNS courses in Field of Study (FOS) programs will transfer to UT DALLAS.</p> <p>UT DALLAS does not accept vocational or technical courses in certificate or applied science programs, nor Workforce Education (WECM) courses, nor developmental courses.</p>
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