



## **COLLEGE OF BIOMEDICAL AND TRANSLATIONAL SCIENCES**

### **Dual Degree Handbook 2025-2026**

**Regardless of the discipline, each CBTS student (MS or PhD) will receive the degree of Biomedical Sciences. The discipline is listed on the transcript as the Major.**

**The information provided in this document serves to supplement the requirements of the College of Biomedical and Translational Sciences and the Dual Degree Programs detailed in the UNT Health Fort Worth Catalog with requirements and information specific to Dual Degrees.**

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## **Description of the Dual Degree Programs**

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The College of Biomedical and Translational Sciences at UNTHSC offers PharmD/MS and PharmD/PhD degrees in collaboration with the UNT System College of Pharmacy and DO/MS and DO/PhD degrees in collaboration with the Texas College of Osteopathic Medicine. All dual degree students will matriculate into one of eight traditional disciplines upon completion of the appropriate coursework and milestones. Once these students have matriculated into a discipline, they will be advised by their major professor and the graduate advisor of the discipline and will complete additional requirements of the specific discipline. The traditional disciplines are: Biochemistry & Cancer Biology; Cell Biology, Immunology & Microbiology; Genetics; Integrative Physiology; Pharmaceutical Sciences and Pharmacotherapy; Pharmacology & Neuroscience; Structural Anatomy & Rehabilitation Sciences; and Visual Sciences. Students receive a competency based, individualized training through original research, formal classroom education, problem-based learning, seminars, and journal clubs.

Faculty members in the College of Biomedical and Translational Sciences are engaged in various aspects of Biomedical research related to the traditional disciplines. A dual degree student can pursue research in any of the faculty labs that are accepting new students at the time the dual degree student matriculates into the School of Biomedical Research. Specific research interests of faculty can be found at the [UNTHSC Experts Website](#).

## **Application and Acceptance Timeline for DO/PhD and DO/MS Dual Degrees**

Students who want to apply to both the DO and PhD or MS degrees simultaneously will apply through TMDSAS and indicate they want to be considered for the DO/PhD dual degree.

Current DO students would apply for the CBTS PhD or MS degree in biomedical sciences in Year 2 of the TCOM DO program. The applicants that are accepted would begin the Year 1 PhD or MS courses in the following Fall.

### **Application Requirements:**

To be considered for admission, the applicant must complete the online application process by the published deadline (but preferably by January 1) by submitting the following:

- Online PhD or MS application (linked on Admissions websites)
- \$50 application fee (waived for McNair scholars with documentation of participation). The online application service charges additional fees.
- Official transcripts from each and every college/University attended. A Bachelor's degree from an accredited institution is required.
  - A course-by-course evaluation from WES is also required for transcripts from institutions outside the U.S.
- Three letters of recommendation
- Resume/CV
- A TOEFL score is also required for international applicants
  - The reporting code for the TOEFL is 6909
- Supplemental materials may be submitted (i.e., personal statement, certificates, etc.) but are not required unless designated by application requirements per program.

## **Course Credit from DO program to MS or PhD program in CBTS**

Two independent laboratory rotations (BMSC 5150 - 2 SCH for MS students or BMSC 6150 – 2 SCH for PhD students) are required for all traditional CBTS graduate students. TCOM DO students should attempt to perform research in the laboratory of a CBTS graduate faculty member during PY1 and PY2. Depending upon how many research rotations were completed, incoming DO/MS and DO/PhD students should register for the appropriate number of SCH of BMSC 5150/6150 in the Fall to satisfy this requirement. Students who are accepted directly into the DO/PhD program at the time of matriculation into TCOM are strongly encouraged to complete at least 1 research rotation (BMSC 6150) during the summer between TCOM years 1 and 2.

DO/PhD students receive up to 30 SCH of advanced standing for the basic science didactic coursework in the DO curriculum; DO/MS students receive up to 12 SCH of advanced standing. Because the basic science DO courses in the TCOM curriculum have been determined to include content equivalent to BMSC 6201, 6202, 6203, and 6204 in the CBTS curriculum, these courses will be waived for DO/PhD and DO/MS students. The DO student may receive waivers for advanced course credit with the recommendation of the advisory committee through submission of the degree plan. The graduate Dean or designee has the final approval on advanced standing credit and requirement waivers.

For additional information regarding Academic Procedures, please refer to the College of Biomedical and Translational Sciences Catalog at [Academic Procedures \(CBTS\)](#).

For additional information regarding the DO degree curriculum and DO/MS and DO/PhD dual degree programs, please refer to the Texas College of Osteopathic Medicine Catalog at [Program: Doctor of Osteopathic Medicine - University of North Texas Health Science Center - Modern Campus Catalog™](#)

## DO/MS Sample Degree Plan

<i>Dept</i>	<i>Course Number</i>	<i>Course Title</i>	<i>SCH</i>	<i>Semester to be Completed</i>
BMSC	5150	Lab Rotations	2	Fall year 1
BMSC	6200	Intro to Experimental Design & Biostatistical Methods	2	Fall year 1
BMSC	5998	Individual Research for MS students	0-4	Fall year 1
		Elective courses	4-8	Fall year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of fall semester, year 1: Selection of Major Professor, Change of Discipline.</u>				
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	5998	Individual Research for MS students	1-7	Spring year 1
		Discipline-specific required courses	4-10	Spring year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of spring semester, year 1: Designation of Advisory Committee, Degree Plan.</u>				
BMSC	5998	Individual Research for MS students	1-5	Summer year 1
BMSC	5108	Transferable Skills	1	Summer year 1
		Elective Courses	0-4	Summer year 1
		<b>Subtotal</b>	<b>6</b>	
BMSC	5998	Individual Research for MS students	6-10	Fall year 2
		Elective Courses	2-6	Fall year 2
		<b>Subtotal</b>	<b>12</b>	
<u>Milestone to be completed by the end of fall semester, year 2: Research Proposal; documentation of the completed proposal must be on file prior to enrollment in Thesis (BMSC 5395).</u>				
BMSC	5395	Thesis	7	Spring year 2
BMSC	5215	Principles of Scientific Communication	2	Spring year 2
		<b>Subtotal</b>	<b>9</b>	
		<b>Total for Degree</b>	<b>63 (including 12 SCH of advanced standing)</b>	

## DO/PhD Sample Degree Plan

<i>Dept</i>	<i>Course Number</i>	<i>Course Title</i>	<i>SCH</i>	<i>Semester to be Completed</i>
BMSC	6150	Lab Rotations	2	Fall year 1
BMSC	6200	Intro to Experimental Design & Biostatistical Methods	2	Fall year 1
BMSC	6998	Individual Research for PhD students	0-4	Fall year 1
		Elective courses	4-8	Fall year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of fall semester, year 1: Selection of Major Professor, Change of Discipline.</u>				
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	6998	Individual Research for PhD students	3-7	Spring year 1
		Discipline-specific required courses	4-8	Spring year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of spring semester, year 1: Designation of Advisory Committee, Degree Plan.</u>				
BMSC	6998	Individual Research for PhD students	1-5	Summer year 1
BMSC	5108	Transferable Skills	1	Summer year 1
		Elective Courses	0-4	Summer year 1
		<b>Subtotal</b>	<b>6</b>	
<u>Milestone to be completed by the end of summer semester, year 1: Oral Qualifying Examination.</u>				
BMSC	6998	Individual Research for PhD students	5-9	Fall year 2
BMSC	6102	Grant Writing	1	Fall year 2
		Elective Courses	2-6	Fall year 2
		<b>Subtotal</b>	<b>12</b>	
BMSC	6998	Individual Research for PhD students	4-8	Spring year 2
BMSC	5215	Principles of Scientific Communication	2	Spring year 2
		Elective Courses	2-6	Spring year 2
		<b>Subtotal</b>	<b>12</b>	
BMSC	6101	Responsible Conduct of Research	1	Summer year 2
BMSC	6998	Individual Research for PhD students	1-5	Summer year 2
		Elective Courses	0-4	Summer year 2
		<b>Subtotal</b>	<b>6</b>	

<u><i>Milestones to be completed by the end of summer semester, year 2: Research Proposal defense and approval: Student must enroll in a minimum of 2 SCH of Doctoral Dissertation once Research Proposal is approved, Annual Progress Report</i></u>				
BMSC	6395	Doctoral Dissertation	2-6	Fall year 3
		Elective Courses	0-4	Fall year 3
		<b><i>Subtotal</i></b>	<b><i>6</i></b>	
BMSC	6395	Doctoral Dissertation	2-6	Spring year 3
		Elective Courses	0-4	Spring year 3
		<b><i>Subtotal</i></b>	<b><i>6</i></b>	
BMSC	6395	Doctoral Dissertation	6	Summer year 3
		<b><i>Subtotal</i></b>	<b><i>6</i></b>	
		<b><i>Total for Degree</i></b>	<b><i>108 (including 30 SCH of advanced standing)</i></b>	

When a DO/PhD student is transitioning from TCOM year 2 into the dedicated PhD training, they are expected to complete the Clinical Orientation Course (MEDE 8400) with the rising year 3 TCOM students. This will prepare them for participating in the longitudinal clerkship (MEDE 9459, or equivalent course) throughout the period of dedicated PhD training in CBTS.

When a DO/PhD student is preparing to transition from the PhD training back into year 3 of TCOM, the student is expected to participate in MEDE 8400 with the rising 3<sup>rd</sup> year class in preparation for their clinical training in TCOM years 3-4.

Once a doctoral student has successfully advanced to candidacy, they may use “PhD Candidate” or “Doctoral Candidate” as a title on any general business correspondence such as business cards, e-mail messages, etc. Once a PhD student has advanced to candidacy (completed the oral qualifying exam and research proposal milestones) they are able to enroll in a total of 6 SCH per semester and must enroll in a minimum of 2 SCH/semester of BMSC 6395 (Doctoral Dissertation). Once a PhD candidate submits the “Declaration of Intent to Graduate” Form, they can enroll in a total of 3 SCH of Doctoral Dissertation in the semester in which they will defend their dissertation (the final semester of enrollment). When the time comes, important dates, instructions and forms for graduation can be found on the [CBTS Graduation Information Webpage](#).



## **Application and Acceptance Timeline for PharmD/PhD and PharmD/MS Dual Degree**

Current PharmD students would apply for the CBTS PhD or MS degree in biomedical sciences in PY3 of pharmacy PharmD program in late fall with decision by January 31 and begin PhD or MS Year 1 courses in following Fall.

### **Application Requirements:**

To be considered for admission, the applicant must submit the following official credentials to the UNTHSC Office of Admissions and Recruitment by the published deadline:

- Online PhD or MS application (linked on Admissions websites)
- \$50 application fee (waived for McNair scholars with documentation of participation)
- Official transcripts from each and every college/University attended
  - A course-by-course evaluation from WES is also required for transcripts from institutions outside the U.S.
- Three letters of recommendation
- Resume/CV
- A TOEFL is also required for international applicants
  - The reporting code for the TOEFL is 6909
- Supplemental materials may be submitted (i.e., personal statement, certificates, etc.) but are not required unless designated by application requirements per program

## **Course Credit from PharmD program to MS or PhD program in CBTS**

Two independent laboratory rotations (BMSC 5150 - 2 SCH for MS students or BMSC 6150 – 2 SCH for PhD students) are required for all traditional CBTS graduate students. Pharmacy PharmD students should attempt to perform research in the laboratory of a CBTS graduate faculty member during PY1 and PY2. Depending upon how many research rotations were completed, incoming PharmD/MS and PharmD/PhD students should register for the appropriate number of SCH of BMSC 5150/6150 in the Fall to satisfy this requirement.

PharmD/PhD students receive up to 20 SCH of advanced standing for the basic science didactic coursework in the PharmD curriculum; PharmD/MS students receive up to 12 SCH of advanced standing. PharmD/PhD or PharmD/MS students will receive advanced standing/credit for BMSC 6201 (2 SCH) through PHAR 7412 Metabolic Basis of Pharmacotherapy (Biochemistry), BMSC 6204 (2 SCH) through PHAR 7411 Physiologic Basis for Pharmacotherapy and PHAR 7331 Immune Based Diseases and Immunology. The PharmD student may receive waivers for advanced course credit with the recommendation of the advisory committee through submission of the degree plan. The graduate dean or designee has the final approval on advanced standing credit and requirement waivers.

For additional information regarding Academic Procedures, please refer to the Graduate College of Biomedical and Translational Sciences Catalog at [Academic Procedures \(CBTS\)](#).

For additional information regarding PharmD/MS and PharmD/PhD dual degree programs, please refer to the UNT System College of Pharmacy Catalog at [Program: Pharmacy, PharmD - University of North Texas Health Science Center - Modern Campus Catalog™](#).

## PharmD/MS Sample Degree Plan

<i>Dept</i>	<i>Course Number</i>	<i>Course Title</i>	<i>SCH</i>	<i>Semester to be Completed</i>
BMSC	5150	Lab Rotations	2	Fall year 1
BMSC	6200	Intro to Experimental Design & Biostatistical Methods	2	Fall year 1
BMSC	6202	Fundamentals of Biomedical Sciences II	2	Fall year 1
BMSC	6203	Fundamentals of Biomedical Sciences III	2	Fall year 1
BMSC	5998	Individual Research for MS students	0-2	Fall year 1
		Elective courses	2-4	Fall year 1
		<b><i>Subtotal</i></b>	<b><i>12</i></b>	
<u><i>Milestones to be completed by the end of fall semester, year 1: Selection of Major Professor, Change of Discipline.</i></u>				
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	5998	Individual Research for MS students	0-4	Spring year 1
		Discipline-specific required courses	4-8	Spring year 1
		<b><i>Subtotal</i></b>	<b><i>12</i></b>	
<u><i>Milestones to be completed by the end of spring semester, year 1: Designation of Advisory Committee, Degree Plan.</i></u>				
BMSC	5998	Individual Research for MS students	1-5	Summer year 1
BMSC	5108	Transferable Skills	1	Summer year 1
		Elective Courses	0-4	Summer year 1
		<b><i>Subtotal</i></b>	<b><i>6</i></b>	
BMSC	5998	Individual Research for MS students	6-10	Fall year 2
		Elective Courses	2-6	Fall year 2
		<b><i>Subtotal</i></b>	<b><i>12</i></b>	
<u><i>Milestone to be completed by the end of fall semester, year 2: Research Proposal; documentation of the completed proposal must be on file prior to enrollment in Thesis (BMSC 5395).</i></u>				
BMSC	5215	Principles of Scientific Communication	2	Spring year 2
BMSC	5395	Thesis	7	Spring year 2
		<b><i>Subtotal</i></b>	<b><i>9</i></b>	
		<b><i>Total for Degree</i></b>	<b><i>63 (including 12 SCH of advanced standing)</i></b>	

## PharmD/PhD Sample Degree Plan

<i>Dept</i>	<i>Course Number</i>	<i>Course Title</i>	<i>SCH</i>	<i>Semester to be Completed</i>
BMSC	6150	Lab Rotations	2	Fall year 1
BMSC	6200	Intro to Experimental Design & Biostatistical Methods	2	Fall year 1
BMSC	6202	Fundamentals of Biomedical Sciences II	2	Fall year 1
BMSC	6203	Fundamentals of Biomedical Sciences III	2	Fall year 1
BMSC	6998	Individual Research for PhD students	0-2	Fall year 1
		Elective courses	2-4	Fall year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of fall semester, year 1: Selection of Major Professor, Change of Discipline.</u>				
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	6998	Individual Research for PhD students	3-7	Spring year 1
		Discipline-specific required courses	4-8	Spring year 1
		<b>Subtotal</b>	<b>12</b>	
<u>Milestones to be completed by the end of spring semester, year 1: Designation of Advisory Committee, Degree Plan.</u>				
BMSC	6998	Individual Research for PhD students	1-5	Summer year 1
BMSC	5108	Transferable Skills	1	Summer year 1
		Elective Courses	0-4	Summer year 1
		<b>Subtotal</b>	<b>6</b>	
<u>Milestone to be completed by the end of summer semester, year 1: Oral Qualifying Examination.</u>				
BMSC	6998	Individual Research for PhD students	5-9	Fall year 2
BMSC	6102	Grant Writing	1	Fall year 2
		Elective Courses	2-6	Fall year 2
		<b>Subtotal</b>	<b>12</b>	
BMSC	5215	Principles of Scientific Communication	2	Spring year 2
BMSC	6998	Individual Research for PhD students	4-8	Spring year 2
		Elective Courses	2-6	Spring year 2
		<b>Subtotal</b>	<b>12</b>	

BMSC	6101	Responsible Conduct of Research	1	Summer year 2
BMSC	6998	Individual Research for PhD students	1-5	Summer year 2
		Elective Courses	0-4	Summer year 2
		<b>Subtotal</b>	<b>6</b>	
<u><i>Milestones to be completed by the end of summer semester, year 2: Research Proposal defense and approval: Student must enroll in a minimum of 2 SCH of Doctoral Dissertation once Research Proposal is approved, Annual Progress Report</i></u>				
BMSC	6395	Doctoral Dissertation	2-6	Fall year 3
		Elective Courses	0-4	Fall year 3
		<b>Subtotal</b>	<b>6</b>	
BMSC	6395	Doctoral Dissertation	2-6	Spring year 3
		Elective Courses	0-4	Spring year 3
		<b>Subtotal</b>	<b>6</b>	
BMSC	6395	Doctoral Dissertation	6	Summer year 3
		<b>Subtotal</b>	<b>6</b>	
		<b>Total for Degree</b>	<b>98 (including 20 SCH of advanced standing)</b>	

Once a doctoral student has successfully advanced to candidacy, they may use “PhD Candidate” or “Doctoral Candidate” as a title on any general business correspondence such as business cards, e-mail messages, etc. Once a PhD student has advanced to candidacy (completed the oral qualifying exam and research proposal milestones) they are able to enroll in a total of 6 SCH per semester, and must enroll in a minimum of 2 SCH/semester of BMSC 6395 (Doctoral Dissertation). Once a PhD candidate submits the “Declaration of Intent to Graduate” Form, they can enroll in a total of 3 SCH of Doctoral Dissertation in the semester in which they will defend their dissertation (the final semester of enrollment). When the time comes, important dates, instructions and forms for graduation can be found on the [CBTS Graduation Information Webpage](#).

## **Additional Information**

### **New Student Orientation**

Dual degree students are required to participate in the CBTS orientation the semester their graduate study begins.

### **Registration**

Incoming dual degree students should consult the Assistant Dean of Graduate Education and Admissions regarding which courses to enroll in. After matriculation into a discipline and choosing a major professor, dual degree students should consult their major professors, graduate advisors and degree plans to determine which courses are needed. A list of courses, including course title, number, section number, and number of credits should be e-mailed to the Executive Director for Student & Academic Services during the registration period for the semester.

### **Graduation**

Dual degree students should submit an Intent to Graduate form in the College of Biomedical and Translational Sciences the semester they will complete requirements for the clinical degree. These forms are due during the CBTS registration period for the semester of graduation. It is not uncommon for dual degree students to complete their research, write and defend their thesis/dissertation prior to re-entering their clinical curriculum. They may also elect to complete the research before returning to the clinical program and focus on writing the thesis/dissertation while completing their clinical program requirements. If a dual degree student has not defended their thesis/dissertation prior to entering clinical rotations, they must maintain enrollment in BMSC 5395 (MS)/6395 (PhD). However, it is important to consult CBTS Student and Academic Services when planning the timing of graduation to ensure that all CBTS requirements are not completed before clinical program requirements. When CBTS requirements are completed, the graduate degree is conferred which makes the student ineligible to participate in commencement exercises as a dual degree candidate. Graduates will receive a separate diploma for each degree earned.

### **Regalia**

In academic tradition, one wears the regalia of the highest degree earned. According to the United States Department of Education, the Doctor of Philosophy is the highest degree earned for a few reasons: 1) an undergraduate degree is prerequisite; 2) there is a research component culminating in a dissertation; and 3) it is considered a terminal degree, meaning that no further courses of study are available in the field after the completion of the degree. Therefore, dual degree students completing PhD requirements typically choose to order the PhD regalia for commencement exercises. Regalia for one degree should not be combined with that of another; however, it is acceptable to carry the hood of the regalia for the second degree folded over your arm for commencement exercises.

HSC hosts commencement exercises once a year at the end of the spring semester. Dual degree candidates march at the end of the student procession and their degrees are conferred last, with appropriate recognition for both degrees earned. Degree candidates will recite the appropriate professional oath with their clinical classmates.