

Dual Degree Handbook 2023-2024

Regardless of the discipline, each SBS 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 School of Biomedical Sciences and the Dual Degree Programs detailed in the UNTHSC Catalog with requirements and information specific to Dual Degrees.

Table of Contents

Pa	age
Description of the Dual Degree Programs	. 3
Application and Acceptance Timeline for DO/PhD and DO/MS Dual Degrees	. 4
Course Credit from DO program to MS or PhD program in SBS	
DO/MS Sample Degree Plan	. 6
DO/PhD Sample Degree Plan	. 7
Application and Acceptance Timeline for PharmD/PhD and PharmD/MS Dual Degrees	.9
Course Credit from PharmD program to MS or PhD program in SBS10	
PharmD/MS Sample Degree Plan	l 1
PharmD/PhD Sample Degree Plan1	12
Additional Information1	14

Description of the Dual Degree Programs

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The School of Biomedical 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 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 School of Biomedical 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 <u>UNTHSC Experts Website</u>.

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 SBS 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:

- o 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 <u>WES</u> is also required for transcripts from institutions outside the U.S.
- Two letters of recommendation
- o Resume/CV
- o A TOEFL score is also required for international applicants
 - o The reporting code for the TOEFL is 6909
- O 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 SBS

Two independent laboratory rotations (BMSC 5150 - 2 SCH for MS students or BMSC 6150 – 2 SCH for PhD students) are required for all traditional SBS graduate students. TCOM DO students should attempt to perform research in the laboratory of a SBS graduate faculty member during PY1 and PY2. Documentation of two rotations in two independent labs, each lasting 6-8 weeks, may be provided to waive the BMSC 5150/6150 requirement. 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. Waiver request for the laboratory rotations may be submitted to the Dean of SBS.

DO/PhD students receive 30 SCH of advanced standing for the basic science didactic coursework in the DO curriculum; DO/MS students receive 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 SBS 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 School of Biomedical Sciences Catalog at <u>Academic Procedures (SBS)</u>.

For additional information regarding DO/MS and DO/PhD dual degree programs, please refer to the Texas College of Osteopathic Medicine Catalog at <u>Dual Degree Programs</u>.

DO/MS Sample Degree Plan

				Semester	
	Course			to be	
Dept	Number	Course Title	SCH	Completed	
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	
		Subtotal	12		
Milestones	to be con	upleted by the end of fall semester, year	• 1: Sel	ection of Major	
<u>Professor</u> ,	Change of	Discipline.			
BMSC	5160	Biomedical Ethics	1	Spring year 1	
BMSC	5315	Principles of Scientific Communication	2	Spring year 1	
BMSC	5109	Values-Based Considerations in Biomedical Sciences	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	
		Subtotal	12		
	to be comp , Degree Pl	leted by the end of <mark>spring semester, year 1:</mark> an.	<u>Designa</u>	ation of Advisory	
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	
		Subtotal	6		
BMSC	5998	Individual Research for MS students	6-10	Fall year 2	
		Elective Courses	2-6	Fall year 2	
		Subtotal	12	Ţ.	
Milestone to be completed by the end of fall semester, year 2: Research Proposal;					
documenta	tion of the	completed proposal must be on file prior	to enro	llment in Thesis	
(BMSC 5395).					
BMSC	5395	Thesis	9	Spring year 2	
		Subtotal	9	1 0,	
		Total for Degree		cluding 12 SCH anced standing)	

DO/PhD Sample Degree Plan

	Course			Semester to be
Dept	Number	Course Title	SCH	Completed
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
		Subtotal	12	-
	s to be con , Change of	npleted by the end of fall semester, year Discipline.	· 1: Sel	<u>lection of Major</u>
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	5315	Principles of Scientific Communication	2	Spring year 1
BMSC	5109	Values-Based Considerations in Biomedical Sciences	1	Spring year 1
BMSC	6998	Individual Research for PhD students	0-4	Spring year 1
		Discipline-specific required courses	4-8	Spring year 1
	s to be comp e, Degree Pi	Subtotal leted by the end of spring semester, year 1: lan.	12 Design	ation of Advisory
Committe	e, Degree Pl	leted by the end of spring semester, year 1: lan.	Design	
<u>Committe</u> BMSC	<u>e, Degree Pi</u> 6998	letted by the end of spring semester, year 1: lan. Individual Research for PhD students	Designo	Summer year 1
Committe	e, Degree Pl	Individual Research for PhD students Transferable Skills	Designo	Summer year 1 Summer year 1
<u>Committe</u> BMSC	<u>e, Degree Pi</u> 6998	Individual Research for PhD students Transferable Skills Elective Courses	1-5 1 0-4	Summer year 1 Summer year 1
BMSC BMSC	6998 5108	Individual Research for PhD students Transferable Skills Elective Courses Subtotal	1-5 1 0-4 6	Summer year 1 Summer year 1 Summer year 1
BMSC BMSC	6998 5108 to be comp	Individual Research for PhD students Transferable Skills Elective Courses	1-5 1 0-4 6	Summer year 1 Summer year 1 Summer year 1
BMSC BMSC BMSC Milestone Examination	6998 5108 to be comp	Individual Research for PhD students Transferable Skills Elective Courses Subtotal	1-5 1 0-4 6	Summer year 1 Summer year 1 Summer year 1
BMSC BMSC BMSC	6998 5108 to be compion.	Individual Research for PhD students Transferable Skills Elective Courses Subtotal pleted by the end of summer semester, y	1-5 1 0-4 6 year 1:	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying
BMSC BMSC Milestone Examination	6998 5108 to be compion. 6998	Individual Research for PhD students Transferable Skills Elective Courses Subtotal pleted by the end of summer semester, y Individual Research for PhD students	1-5 1 0-4 6 ear 1:	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2
BMSC BMSC Milestone Examination	6998 5108 to be compion. 6998	Individual Research for PhD students Transferable Skills Elective Courses Subtotal Detected by the end of summer semester, y Individual Research for PhD students Grant Writing	1-5 1 0-4 6 ear 1:	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2
BMSC BMSC Milestone Examination	6998 5108 to be compion. 6998	Individual Research for PhD students Transferable Skills Elective Courses Subtotal pleted by the end of summer semester, y Individual Research for PhD students Grant Writing Elective Courses	1-5 1 0-4 6 ear 1: 5-19 1 2-6	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2
BMSC BMSC Milestone Examinate BMSC BMSC	6998 5108 to be compion. 6998 6102	Individual Research for PhD students Transferable Skills Elective Courses Subtotal Detected by the end of summer semester, y Individual Research for PhD students Grant Writing Elective Courses Subtotal	1-5 1 0-4 6 ear 1: 5-19 1 2-6 12	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2 Fall year 2
BMSC BMSC Milestone Examinate BMSC BMSC	6998 5108 to be compion. 6998 6102	Individual Research for PhD students Elective Courses Subtotal Individual Research for PhD students Transferable Skills Elective Courses Subtotal Individual Research for PhD students Grant Writing Elective Courses Subtotal Individual Research for PhD students Grant Writing Elective Courses Subtotal Individual Research for PhD students	1-5 1 0-4 6 ear 1: 5-19 1 2-6 12 6-10	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2 Fall year 2 Spring year 2
BMSC BMSC Milestone Examinate BMSC BMSC	6998 5108 to be compion. 6998 6102	Individual Research for PhD students Transferable Skills Elective Courses Subtotal Detected by the end of summer semester, y Individual Research for PhD students Grant Writing Elective Courses Subtotal Individual Research for PhD students Elective Courses Elective Courses Elective Courses Elective Courses	1-5 1 0-4 6 ear 1: 5-19 1 2-6 12 6-10 2-6	Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2 Fall year 2 Spring year 2
BMSC BMSC BMSC Milestone Examination BMSC BMSC BMSC	6998 5108 to be compion. 6998 6102	Individual Research for PhD students Transferable Skills Elective Courses Subtotal Detected by the end of summer semester, y Individual Research for PhD students Grant Writing Elective Courses Subtotal Individual Research for PhD students Elective Courses Subtotal Elective Courses Subtotal	1-5 1 0-4 6 ear 1: 5-19 1 2-6 12 6-10 2-6 12	Summer year 1 Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2 Fall year 2 Spring year 2 Spring year 2 Summer year 2
BMSC BMSC BMSC BMSC BMSC BMSC BMSC BMSC	6998 5108 to be compion. 6998 6102	Individual Research for PhD students Transferable Skills Elective Courses Subtotal Detected by the end of summer semester, y Individual Research for PhD students Grant Writing Elective Courses Subtotal Individual Research for PhD students Elective Courses Subtotal Individual Research for PhD students Elective Courses Subtotal Responsible Conduct of Research	1-5 1 0-4 6 ear 1: 5-19 1 2-6 12 6-10 2-6 12	Summer year 1 Summer year 1 Summer year 1 Summer year 1 Oral Qualifying Fall year 2 Fall year 2 Fall year 2 Spring year 2 Spring year 2

Dissertation once Research Proposal is approved, Annual Progress Report

BMSC	6395	Doctoral Dissertation	2-6 Fall year 3
		Elective Courses	0-4 Fall year 3
		Subtotal	6
BMSC	6395	Doctoral Dissertation	2-6 Spring year 3
		Elective Courses	0-4 Spring year 3
		Subtotal	6
BMSC	6395	Doctoral Dissertation	6 Summer year 3
		Subtotal	6
		Total for Degree	108 (including 30
			SCH of advanced
			standing)

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 SBS Graduation Information Webpage.

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

Current PharmD students would apply for the SBS 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:

- o Online PhD or MS application (linked on Admissions websites)
- o \$50 application fee (waived for McNair scholars with documentation of participation)
- o Official transcripts from each and every college/University attended
 - o A course-by-course evaluation from <u>WES</u> is also required for transcripts from institutions outside the U.S.
- Two letters of recommendation
- o Resume/CV
- o A TOEFL is also required for international applicants
 - o The reporting code for the TOEFL is 6909
- O 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 SBS

Two independent laboratory rotations (BMSC 5150 - 2 SCH for MS students or BMSC 6150 – 2 SCH for PhD students) are required for all traditional SBS graduate students. Pharmacy PharmD student should attempt to perform research in the laboratory of a SBS graduate faculty member during PYI and PY2. Documentation of two rotations in two independent labs, each lasting 6-8 weeks, may be provided to waive the BMSC 5150/6150 requirement. 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. Waiver request for the laboratory rotations may be submitted to the Dean.

PharmD/PhD students receive 20 SCH of advanced standing for the basic science didactic coursework in the PharmD curriculum; PharmD/MS students receive 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 School of Biomedical Sciences Catalog at <u>Academic Procedures (SBS)</u>.

For additional information regarding PharmD/MS and PharmD/PhD dual degree programs, please refer to the UNT System College of Pharmacy Catalog at <u>Dual Degree Programs</u>.

PharmD/MS Sample Degree Plan

				Semester			
	Course			to be			
Dept	Number	Course Title	SCH	Completed			
BMSC	5150	Lab Rotations	2	Fall year 1			
BMSC	6200	Intro to Experimental Design &	2	Fall year 1			
		Biostatistical Methods					
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			
		Subtotal	12				
Milestor	nes to be c	completed by the end of fall semester, yea	ar 1: S	election of Major			
<u>Professo</u>	or, Change	of Discipline.					
BMSC	5160	Biomedical Ethics	1	Spring year 1			
BMSC	5315	Principles of Scientific Communication	2	Spring year 1			
BMSC	5109	Values-Based Considerations in	1	Spring year 1			
		Biomedical Sciences		1 0,			
BMSC	5998	Individual Research for MS students	0-4	Spring year 1			
		Discipline-specific required courses	4-8	Spring year 1			
		Subtotal	12				
Milestor	Milestones to be completed by the end of spring semester, year 1: Designation of Advisory						
	<u>tee, Degree</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			
		Subtotal	6	j			
BMSC	5998	Individual Research for MS students	6-10	Fall year 2			
		Elective Courses	2-6	Fall year 2			
		Subtotal	12	Ž			
Milestor	ne to be co	ompleted by the end of fall semester, yea	r 2: Re	search Proposal:			
		he completed proposal must be on file prio		-			
(BMSC	U	1 1 1					
BMSC	5395	Thesis	9	Spring year 2			
		Subtotal	9				
		Total for Degree	63 (in	cluding 12 SCH			
		of advanced standing)					

PharmD/PhD Sample Degree Plan

				Semester
	Course			to be
Dept	Number	Course Title	SCH	Completed
BMSC	6150	Lab Rotations	2	Fall year 1
BMSC	6200	Intro to Experimental Design &	2	Fall year 1
		Biostatistical Methods		
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
		Subtotal	12	
Milestor	nes to be o	completed by the end of fall semester, year	ar 1: S	election of Major
<u>Professo</u>	or, Change	of Discipline.		
BMSC	5160	Biomedical Ethics	1	Spring year 1
BMSC	5315	Principles of Scientific Communication	2	Spring year 1
BMSC	5109	Values-Based Considerations in	1	Spring year 1
		Biomedical Sciences		1 0,
BMSC	6998	Individual Research for PhD students	0-4	Spring year 1
		Discipline-specific required courses	4-8	Spring year 1
		Subtotal	12	1 0
	<u>tee, Degree</u>		1	
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
		Subtotal	6	
Milestor Examina		ompleted by the end of summer semester,	year 1	: Oral Qualifying
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
		Subtotal	12	
BMSC	6998	Individual Research for PhD students	6-10	Spring year 2
		Elective Courses	2-6	Spring year 2
		Subtotal	12	
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
		Subtotal	6	

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							
BMSC	6395	Doctoral Dissertation	2-6	Fall year 3			
		Elective Courses	0-4	Fall year 3			
		Subtotal	6				
BMSC	6395	Doctoral Dissertation	2-6	Spring year 3			
		Elective Courses	0-4	Spring year 3			
		Subtotal	6				
BMSC	6395	Doctoral Dissertation	6	Summer year 3			
		Subtotal	6				
	Total for Degree 98 (including 20 SCH of advanced standing)						

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 SBS Graduation Information Webpage.

Additional Information

New Student Orientation

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

Registration

Incoming dual degree students should consult the Director of Traditional MS/PhD Programs 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.

Payment of Tuition and Fees

SBS Student and Academic Services will coordinate bill payment for dual degree students. From the first semester DO/PhD students are enrolled in SBS, tuition and fees are paid for both TCOM and SBS enrollment through graduation. Only SBS tuition and fees are paid for students pursuing the PhD with a clinical program other than TCOM.

Payroll

SBS will manage payroll documentation for dual degree students. During the period of enrollment in SBS, dual degree students pursuing the PhD will be paid as graduate research assistants. The current level of funding is \$30,000/year. During the clinical rotation block of the DO/PhD program, the level of funding is reduced to \$10,800/year.

Graduation

Dual degree students should submit an Intent to Graduate form in the School of Biomedical Sciences the semester they will complete requirements for the clinical degree. These forms are due during the SBS 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 reentering 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. However, it is important to consult SBS Student and Academic Services when planning the timing of graduation to ensure that all SBS requirements are not completed before clinical program requirements. When SBS 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 processional 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.