



College of Pharmacy

MS-MHS-COP Program Curriculum for 2017-2018

Fall Semester 2017: 08/07/2017 to 12/15/2017
Spring Semester 2018: 01/02/2018 to 05/15/2018

<p>Program Director: Daniel Keppler, PhD Office: Bldg. H-84, Rm. 111 Phone: (707) 638-5956 E-mail: daniel.keppler@tu.edu</p>	
<p>Educational Technical Support: IT Department, Library Annex Phone: (707) 638-5424 E-mail: servicedesk@tu.edu</p> <p>IT Office Hours: Mon - Thu 8:00 am - 7:00 pm Friday 8:00 am - 3:00 pm Sunday 9:00 am - 4:00 pm</p>	
<p>MS & Residency Programs Coordinator: Ms. Christina Monasterio Office: Bldg. H-84, Rm. 216 Phone: (707) 638-59 E-mail: christina.monasterio@tu.edu</p>	<p>Webmaster: Ms. Bridget Canfield, BSc E-mail: bridget.canfield@tu.edu</p>

Course Instructors:	Schoolyear
Dr. Shankar Chinta (Pharmaceutical Sciences)	2016-present
Dr. Chong He (Buck Institute for Aging Research)	2017-present
Dr. Susan Heimer (Biological Sciences)	2015-present
Dr. John Inciardi (Social, Behavioral & Administrative Sciences)	2015-present
Dr. Daniel Keppler (Biological Sciences)	2012-present
Dr. Athena W. Lin (COM, Basic Sciences)	2016-present
Dr. David Madden (Pharmaceutical Sciences)	2012-present
Dr. Alison McCormick (Pharmaceutical Sciences)	2012-present
Dr. Shona Mookerjee (Pharmaceutical Sciences)	2012-present
Dr. Vanishree Rajagopalan (Pharmaceutical Sciences)	2012-present

Current Student Advisors:	
Dr. Shankar Chinta (Pharmaceutical Sciences)	2016-present
Dr. Kevin Ita (Pharmaceutical Sciences)	2012-present
Dr. Hardeep Kaur (Biological Sciences)	2017-present
Dr. Daniel Keppler (Biological Sciences)	2012-present
Dr. Athena W. Lin (COM, Basic Sciences)	2012-present
Dr. Shengquan Liu (Pharmaceutical Sciences)	2012-present
Dr. Gordon McCarter (Biological Sciences)	2016-present
Dr. Alison McCormick (Pharmaceutical Sciences)	2012-present
Dr. Shona Mookerjee (Pharmaceutical Sciences)	2012-present
Dr. Vanishree Rajagopalan (Pharmaceutical Sciences)	2015-present
Dr. Patricia Shane (Social, Behavioral & Administrative Sciences)	2012-present
Dr. Jay Shubrook (COM, Primary Care Department)	2015-present
Dr. Clipper Young (COM, Primary Care Department)	2015-present

Goals of the MS Program:

The goals of this 33-credit MS Program are:

- To promote/establish sound understanding of scientific research, critical analytical skills, effective communication skills, good work ethics, and high professionalism.
- To prepare/enhance students' qualification and competency in pursuing advanced training or careers which require the above skills, including entering pharmacy schools.

MS Program Student Learning Outcomes (PSLOs):

Students who complete this MS Program in Medical Health Sciences with emphasis in Pharmacy Sciences at Touro University California - College of Pharmacy will be able to...

1. Demonstrate the ability to critically assess the scientific literature
2. Engage in and conduct original research
3. Design and implement research experiments to critically test hypotheses in pharmaceutical sciences and health outcomes
4. Demonstrate the ability to present scientific data
5. Develop strong verbal and written communication skills
6. Behave in a professional and ethical manner

Fall Semester 2017:

4 required courses (17 credits) + 1 elective course (1 credit, Biotech track) = 18 credits

Required courses:			Primary Instructor(s)
HSPC601	Biostatistics & Epidemiology	(2 credits)	Dr. Inciardi
HSPC602	Mentored Research-1	(12 credits)	Student Advisors
HSPC603	Scientific Writing-1	(2 credits)	Dr. Mookerjee
HSPC604	Journal Club	(1 credit)	Dr. Keppler

Elective course (Biotech track):		Primary Instructor(s)
HSPC600	Introduction to Biotechnology	(1 credit) Dr. He

Fall Semester 2017 17 +/- 1 credits						
	Monday	Tuesday	Wednesday	Thursday	Friday	
08:00 am - 09:00 am	Preparation Time	Preparation Time	Preparation Time	Preparation Time	Preparation Time	08:00 am - 09:00 am
09:00 am - 10:00 am	HSPC602 Mentored Research-1	HSPC602 Mentored Research-1	HSPC602 Mentored Research-1 (12 Cr)	HSPC602 Mentored Research-1	HSPC602 Mentored Research-1	09:00 am - 10:00 am
10:00 am - 11:00 am						10:00 am - 11:00 am
11:00 am - 12:00 pm						11:00 am - 12:00 pm
12:00 pm - 01:00 pm						12:00 pm - 01:00 pm
	Break	Break	Break	Break	Break	
01:00 pm - 02:00 pm	HSPC600E (1 Cr) Intro Biotechnol					01:00 pm - 02:00 pm
02:00 pm - 03:00 pm	HSPC603 (2 Cr) Scient. Writing-1					02:00 pm - 03:00 pm
03:00 pm - 04:00 pm	HSPC604 (1 Cr) Journal Club					03:00 pm - 04:00 pm
04:00 pm - 05:00 pm	Break					04:00 pm - 05:00 pm
05:00 pm - 06:30 pm	HSPC601 (2 Cr) Biostats & Epid.					05:00 pm - 06:30 pm

Spring Semester 2018:

4 required courses (15 credits) + 1 elective course (1 credit, PharmD track) = 16 credits

Required courses (<i>Students take all 4 required courses</i>):			Primary Instructor(s)
HSPC606	Scientific Writing-2	(2 credits)	Dr. Lin
HSPC607	Scientific Presentation	(2 credits)	Dr. Rajagopalan
HSPC608	Mentored Research-2	(10 credits)	Student Advisors
HSPC609	Journal Club	(1 credit)	Dr. Heimer

Elective course (PharmD track):		Primary Instructor(s)
HSPC610	Integrated Pharmaceutical Sciences	(1 credit) Dr. Liu

Spring Semester 2018 15 +/- 1 credits						
	Monday	Tuesday	Wednesday	Thursday	Friday	
08:00 am - 09:00 am	Preparation Time	Preparation Time	Preparation Time	Preparation Time	Preparation Time	08:00 am - 09:00 am
09:00 am - 10:00 am	HSPC608 Mentored Research-2	HSPC608 Mentored Research-2	HSPC608 Mentored Research-2 (10 Cr)	HSPC608 Mentored Research-2	HSPC608 Mentored Research-2	09:00 am - 10:00 am
10:00 am - 11:00 am						10:00 am - 11:00 am
11:00 am - 12:00 pm						11:00 am - 12:00 pm
12:00 pm - 01:00 pm						12:00 pm - 01:00 pm
						Break
01:00 pm - 02:00 pm		HSPC607 (2 Cr) Scient. Present.				01:00 pm - 02:00 pm
02:00 pm - 03:00 pm		HSPC606 (2 Cr) Scient. Writing-2				02:00 pm - 03:00 pm
03:00 pm - 04:00 pm		HSPC609 (1 Cr) Journal Club				03:00 pm - 04:00 pm
04:00 pm - 05:00 pm		Break				04:00 pm - 05:00 pm
05:00 pm - 06:00 pm		HSPC610E (1 Cr) Integr Pharm Sci				05:00 pm - 06:00 pm

Overview of the MS Curriculum 2017-2018:

Fall 2017		
HSPC600 Elective Introduction to Biotechnology	Aug 07 - Dec 15 Dr. Chong He	Mon 1:00 - 2:00 pm PPC #112
HSPC601 Biostatistics & Epidemiology	Aug 07 - Dec 15 Dr. John Inciardi	Mon 4:30 - 6:30 pm PPC #112
HSPC602 Mentored Research-1	Aug 07 - Dec 15 Student Advisors	Mon - Fri Lab/Office/Site
HSPC603 Scientific Writing-1	Aug 07 - Dec 15 Dr. Shona Mookerjee	Mon 2:00 - 3:00 pm PPC #112
HSPC604 Journal Club-1	Aug 07 - Dec 15 Dr. Daniel Keppler	Mon 3:00 - 4:00 pm PPC #112
Spring 2018		
HSPC606 Scientific Writing-2	Jan 02 - May 15 Dr. Athena Lin	Tue 2:00 - 3:00 pm PPC #112
HSPC607 Scientific Presentations	Jan 02 - May 15 Dr. Vanishree Rajagopalan	Tue 1:00 - 2:00 pm PPC #112
HSPC608 Mentored Research-2	Jan 02 - May 15 Student Advisors	Mon - Fri Lab/Office/Site
HSPC609 Journal Club-2	Jan 02 - May 15 Dr. Susan Heimer	Tue 3:00 - 4:00 pm PPC #112
HSPC610 Elective Integrated Pharmaceut. Sciences	Jan 02 - May 15 Dr. Shengquan Liu	Tue 4:30 - 5:30 pm PPC #112

Seminar Series for 2017-2018:

Buck Institute Formal Research Seminar Fridays 11 am - 12 noon
Buck Institute, Novato, California. E-mail: shona.mookerjee@tu.edu

COP Residency Research Seminar Series.

Schedule and materials coordinated by Dr. Shadi Doroudgar. E mail: shadi.doroudgar@tu.edu

MS Workshops for 2017-2018:

- Career and Residency Day. September, 2017
- How to apply to Pharmacy School. Office of Admissions. October, 2017
- Mock Interviews with PharmD Faculty. November 2017
- Mock Interviews with PharmD Faculty. January 2018

Important Dates Near the End of the Spring Semester 2018

Mon Apr 16	First complete draft of manuscript (version 1) submitted to Advisor
Sun Apr 22	Advisor returns draft to student with revisions and comments
Wed Apr 25	Poster Presentation at TUC Annual Research Day
Mon Apr 30	Revised draft (version 2) submitted to Independent Reader
Sun May 06	Reader returns draft with revisions and comments
Thu May 10	Final Research Presentation to faculty and students
Tue May 15	Final manuscript (version 3) due to Advisor and MS Office
Wed May 23?	Graduation of the Class of 2018