

# PHARMACEUTICAL SCIENCES (MSPS)

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<b>MSPS 511 Grad Research Seminar</b>	<b>1 Credit hour</b>	<b>MSPS 613 Pharmcometrics Recitation</b>	<b>1 Credit hour</b>
This course lays the foundation in oral communication for graduate students in pharmaceutical sciences. It provides experience in scientific presentation with an emphasis on defense of data and interpretation.		Pharmacometrics recitation	
<b>Grade Mode:</b> Normal Grading Mode		<b>Grade Mode:</b> Normal Grading Mode	
<b>MSPS 512 Med Chem &amp; Drug Disc</b>	<b>1 Credit hour</b>	<b>MSPS 632 Prod Dev by Quality Design</b>	<b>3 Credit hours</b>
This course gives an overview of drug discovery principles and techniques for the practicing medicinal chemist.		Product Development by Quality by Design	
<b>Grade Mode:</b> Normal Grading Mode		<b>Grade Mode:</b> Normal Grading Mode	
<b>MSPS 513 Biopharm 2</b>	<b>1 Credit hour</b>	<b>MSPS 699 Thesis</b>	<b>1-6 Credit hours</b>
Topics include mechanisms immediate and sustained drug release in formulations; novel drug delivery systems; drug pre-formulation; the drug approval process; drug preparation, liberation, absorption and stability of dosage forms.		Thesis	
<b>Grade Mode:</b> Normal Grading Mode		<b>Grade Mode:</b> Normal Grading Mode	
<b>MSPS 514 Resb Conduct Research</b>	<b>1 Credit hour</b>		
This course will help graduate students in pharmaceutical science become familiar with the general ethical issues that will arise through the course of basic science research. This course will help graduate students understand how to conduct ethical research, identify and focus on unethical situations in research, and how to solve future unethical dilemmas that may arise in the workplace.			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 531 Regulatory Affairs</b>	<b>3 Credit hours</b>		
An overview of USFDA's regulation on drug. Topics covered include pharmaceutical regulatory agencies and organizations around the world and their International Regulatory Audits for Pharma, International Conference on Harmonization (ICH) guidelines, Pharmacopoeias and national formulary, US Food and Drug Administration (USFDA): History of USFDA Law and Regulation, GLP, MMP, NDA, and ANDA.			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 542 Science Seminars</b>	<b>1 Credit hour</b>		
This course will help graduate students in the pharmaceutical sciences learn the basics of scientific communication and how to critically evaluate scientific literatures. Students must complete four versions of this course for credit. For the first three course offering, the student will receive a "CR" (credit) or "NC" (no credit). Upon completion of the fourth version of the course the student will receive a letter grade.			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 581 Special Topics</b>	<b>1-3 Credit hours</b>		
Special Topics			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 585 Independent Study</b>	<b>1-3 Credit hours</b>		
Independent Study			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 586 Problem Report</b>	<b>1-3 Credit hours</b>		
Problem Report			
<b>Grade Mode:</b> Normal Grading Mode			
<b>MSPS 612 Pharm Analysis</b>	<b>1 Credit hour</b>		
Pharmaceutical Analysis			
<b>Grade Mode:</b> Normal Grading Mode			