

## Graduate Program in Pharmaceutical & Pharmacological Sciences

<u>Year 1 (Core)</u>			<u>Year 2</u>			<u>Year 3</u>			<u>Year 4 &amp; 5</u>
<b>1<sup>st</sup> Semester</b>	<b><u>Cr</u></b>			<b><u>Cr</u></b>		<b><u>Cr</u></b>		<b><u>Cr</u></b>	
Cellular Structure & Function	(4)		Advanced Courses	(3-6)		Advanced Courses	(3)	Research	(10)
Fundamentals of Integrated Systems	(4)		Graduate Seminar	(1)		Research	(3)	Grad Seminar	(1)
Biostatistics for the Basic Sciences	(1)		Journal Club	(1)		Graduate Seminar	(1)	Journal	(1)
Discussions on Scientific Integrity	(1)		Research	(4-5)		Journal Club	(1)		
Laboratory Rotation (1 <sup>st</sup> )	(1)					Research	(3-4)		
						<b>Proposal Defense</b>			
<b>CREDITS</b>	<b>11</b>			<b>9-13</b>			<b>11-12</b>		<b>12</b>
<b>2<sup>nd</sup> Semester</b>									
Molecular Genetics	(3)		Advanced Courses	(3)		Advanced Courses	(3)	Research	(10)
Elective Modules	(5-9)		Graduate Seminar	(1)		Research	(3)	Grad Seminar	(1)
Laboratory Rotations (2 <sup>nd</sup> )	(1)		Journal Club	(1)		Graduate Seminar	(1)	Journal	(1)
Laboratory Rotations (3 <sup>rd</sup> )	(1)		Research	(4-7)		Journal Club	(1)		
			<b>Qualifying Exam</b>			Research	(3-4)		
<b>CREDITS</b>	<b>10-14</b>			<b>9-12</b>			<b>11-12</b>		<b>12</b>
<b>Summer Session 1</b>									
Scientific Writing Exercise	(1)		Research	(3)		Research	(3)	Research	(3)
Research	(2)								
<b>Summer Session 2</b>									
Research	(3)		<b>Research</b>	(3)		<b>Research</b>	(3)	<b>Research</b>	(3)
<b>CREDITS</b>	<b>(6)</b>			<b>(6)</b>			<b>(6)</b>		<b>(6)</b>
<b>TOTAL CREDITS</b>	<b>27-31</b>			<b>24-31</b>			<b>28-30</b>		<b>30</b>

**Advanced Courses may include Pharmacology I, Biopharmaceutics or Protein Chemistry & Enzymology; Introduction to Molecular Modeling. Advanced Organic Chemistry I & II, and Drug Metabolism, Courses taken depend on the students area of specialization (e.g. Medicinal Chemistry, Pharmacokinetics, Pharmaceutics, etc). Students emphasizing Pharmacological training are required to matriculate in Pharmacology I and II.**