

# Master's Degree in Dental Science: Exocrine Gland/Ion Channel Biology Track Regenerative Oral Biology

## Core Curriculum- 21 credits

COURSE #	COURSE TITLE		COURSE CREDITS
IND 408	Biochemistry □	Fall, yearly	5
IND 409	Cell Biology	Fall, yearly	4
PHP 403	Pharm/Phys: Disease-Based App	Fall, even	4
PHP 404	Pharm/Phys: Disease-Based App	Spr, yearly	4
ORB 563	<b><i>Pharm. &amp; Therapeutics</i></b>	Fall, odd	1
ORB 579	Saliva/Salivary Glands	Spr, even	2
IND 501	Ethics & Prof. Integrity □	Fall, yearly	1

## Required Research

COURSE #	COURSE TITLE		COURSE CREDITS
ORB 495	Master's Research	All	5

## Elective Curriculum – minimum of 6 credits

COURSE#	COURSE TITLE		COURSE CREDITS
GEN 507	Adv. Genet. Genomics □	Fall, yearly	4
GEN 508	Genomics and Systems Biology	Spr, yearly	4
BIO 426	Developmental Biology□		4
IND 447	Signal Transduction	Spr, yearly	4
IND410	Molecular Biology	Spr, yearly	4
PHP 440	Topics in Vascular Biology	Spr, even	2
PHP 520	Frontiers in Mitochon. Med.		2
PHP 550	Ion Channels and Disease	Spr, even	2
PHP 530	Adv. Topics in Pharmacology	Fall, yearly	2
ANA513	Neuroinflammation	Spr, even	4
PTH 593	Molecular Mech.of Human Dis.	Fall, yearly	4
STT 463	Intro. to Biostatistics	Fall, yearly	4

## Required Seminars

COURSE #	COURSE TITLE		COURSE CREDITS
ORB 501-504	Oral Biology Res. Seminar (4 semesters)	Fall/Spring	4

More information:[urmc.rochester.edu/dentistry/education/programs/masters.cfm](http://urmc.rochester.edu/dentistry/education/programs/masters.cfm)  
 To apply:<https://apply.rochester.edu/medicine-dentistry/Login.aspx>