

## PHYSIOLOGY PREREQUISITES FOR SCHULICH DENTISTRY

Dentistry requires all incoming students to have a thorough knowledge of human (or mammalian) systems physiology. This knowledge should include the following aspects of physiology: neurophysiology (autonomic, sensory, motor and integrative), muscle, cardiovascular, respiratory, gastrointestinal, renal, endocrine, metabolism, reproduction and homeostasis.

The following two mechanisms are available for obtaining the physiology prerequisite for the undergraduate dental program at Western:

1) Successful completion of a course (or courses) listed in the following Table

Note that absence of a course from this list does not imply that it is deficient or inadequate in any way. The list of courses will be updated from time to time as new information becomes available. Since individual universities may alter their course offerings or the content of a course, this list is subject to change without notice. If your home university does not offer a listed course, suitable distance education courses are available from Dalhousie, Toronto, Waterloo and Western.

## 2) Physiology challenge exam

If you have taken physiology courses not listed in the Table below and feel that your knowledge of physiology is sufficient, then you can apply to take the physiology challenge exam. Students who are successful in this challenge exam will be given credit for the physiology requirement. The Physiology Challenge Exam is held during the interview weekend in April. It is available only to those candidates who are competitive in the applicant pool and have been invited for an interview. The exam is similar to the instrument used to evaluate students who take Physiology 2130 at Western. It is a 3-hour exam in multiple-choice format. A grade of 70% is required for your physiology background to be judged acceptable. There is a charge to cover the costs of administering this exam.

To be successful in the Challenge Exam, students should be familiar with human systems physiology at the level presented in a recent edition of one of the following textbooks:

**Human Physiology: The Mechanisms of Body Function**, by Vander, Sherman and Luciano (McGraw Hill). This can be combined with an instructional CD entitled MediaPhys 3.0, which can be purchased through the Western bookstore or on-line. The CD covers the physiology background required for the dental curriculum.

or

Human Physiology: An Integrated Approach, by Silverthorn (Prentice Hall).



## RECOMMENDED PHYSIOLOGY PREREQUISITES FOR THE SCHULICH DENTAL PROGRAM

## RECOMMENDED PHYSIOLOGY PREREQUISITES

INSTITUTION	COURSES
Acadia University	BIOL 2813 + 2823
	BIOL 3173 + 3183
	KINE 2413 + 2423
University of Alberta	PYSIO 161 or 210 or 211 or 252
	PYSIO 212 + 214
	ZOOL 241 + 242
Athabasca University	BIOL 230
Bishop's University	BIOL 226A + 228B (both)
University of British Columbia	PYSIO 301 or CAPS 301
	BIOL 353 (old)
	BIOL 361+363+364
University of British Columbia – Okanagan	None
Brock University	Biol 2P97 and CHSCH 2P09 or PEKN 2P09
University of Calgary	ZOOL 361 + 363 (both)
	ZOOL 461 + 463 (both)
	MDSC 404
	MDSC 502
	MDSC 604
Cape Breton University	None
University College of the Fraser Valley	KPE 270 + 370
Carleton University	None
University of Colorado	IPHY 3470 + 3480
Concordia University	BIOL 383 + BIOL 483 (both) or
	EXCI 257 + EXCI 357 (both)
Dalhousie University	PHYL 2030X/Y.06 or
	PHYL 2031 or 2041 + PHYL 2032
	PHYL 1010X/Y.06 or
	PHYL 1000X/Y.06 (distance education)

INSTITUTION	COURSES
	HK 3940
University of Guelph	BIOM 3100 + 3110 (both)
	BIOM 3200
Grant McEwan	None
Lakehead University	None
Laurentian University	BIOL 2105 + 3756 (both)
	BIOL 2701E
Hall and the CM and the	ZOO 2530 + 2540 (both)
University of Manitoba	BIOL 2410 + 2420
McGill University	PHGY 201 + PHGY 202 (both)
	PHYG 209 + PHGY 210 (both)
	BIOL 3U03 + 3UU3 (both)
Manager I Indicated	HTH SCI 1B07 + 2B08
McMaster University	HTH SCI 2F03 + 2FF3
	HTH SCI 2L03 + 2LL3
Memorial University	BIOCH 311A/B
	MEDICINE 310 A/B
Université de Moncton	BIO 2133 + 2233 (both)
Mount Allison University	BIO 2004 + 3005 (both)
Mount Royal College/University	ZOOL 3361 + 3363 (both)
Mount St. Vincent University	None
	BIOL 2721 + BIOL 2782 (both) (1782=2782)
University of New Brunswick	BIOL 2761 + BIOL 2792 (both)
Niagara University	BIOL 231 + BIOL 232 (both)
University of Northern British Columbia	HHSC 111 + 112
University of Ottawa	PHS 3240 (old) PHS3341 + PHS 3342
University of Prince Edward Island	BIOL 401 + 402 (both)
	Physiology PHGY-210
Queen's University	Physiology PHGY-212
	Physiology PHGY-214
University of Regina	None
Ryerson University	PLN 103 + PLN 203 (both)

INSTITUTION	COURSES
St. Francis Xavier University	None
St. Mary's University	BIO 2322 + 2323
	BIOL 2004 + 2005
	BIOL 2004 + 3005
University of Saskatchewan	HSC 208
	PHSI 208 (= HSC 208)
	PHSI 212
Simon Fraser University	KIN 305 + KIN 306 (both)
Thompson River University	BIOL 354 + BIOL 355 (both)
	BIOL 1593 + 1693
University of Toronto – St. George	PSL 200Y
	PSL 201Y
offiversity of Foronto – St. deorge	PSL 302Y
	PSL 300H + PSL 301H (both)
University of Toronto at Mississauga	BIOL 210 + 304 + 310 (all)
	BGYB 30 + BGYC 33 or BGYC 34
University of Toronto at Scarborough	BIOB 30 + BIOC 33 or BIOC 34
Chiversity of Foronto at ocal borough	BIOC 32 + BIOC 33
	BIOB 34 + BIOC 33 or BIOC 34
University of Toronto – Continuing Studies	SCS 2159 distance studies/on-line
Thompson River University	BIOL 1593 + 1693
Trent University	BIOL 3830 + BIOL 3840 (both)
University of Vermont College of Medicine	MPBP 301
Vancouver Island	BIOL 305
University of Victoria	PE 241A + PE 241B/EPHE 241B (both)
	BIOL 273 + 373 (both)
University of Waterloo	SCI 351 + SCI 352 (both)
Oniversity of Waterioo	BIOL 273 + SCI 352 (both)
	PHARM 110 + 111
Western University	PHYSIO 1020 or 1021 or 2130 or 3120
	PHYSIO 021 or 130 or 310 or 312
	ENG 9130
Wilfred Laurier University	BI 216 (= HE 211) + BI 217 or 396i
University of Windsor	BIOL 55-204 + 55-205 (both)
	Mammalian PYSIO 55-484 + 55-485 (both)

INSTITUTION	COURSES
University of Winnipeg	None
York University	AS/SC/KINE 2011 (3011) + 3012 (both)
	SC/BIOL 3060 + 3070 (both)

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