ACADEMIC PROGRAM DESCRIPTIONS 大学专业简介

The academic program descriptions list below displays the different programs that students can enter. The information found below for each program are common examples, however different universities/colleges may have varied faculty, degree, major, course name/availabilities. The list below can be used as a general guide for students, counsellors and parents when starting off University/College planning, however to get specifics for individual universities/colleges, the schools' websites should be visited.

以下大学专业简介文件介绍了学生们可以申请的不同专业信息。这些专业的信息是一些范例，但是请注意不同大学的院系及专业设置、学历及课程名称，都各有不同。以下列出的信息可以作为针对学生，咨询老师以及家长的总体指南，用于开始规划大学申请的初期阶段。如果想要查找具体某个大学某个专业的详细准确信息，请仔细浏览学校的官方网站。

Each program description will include the program's:
Rosedale Pathways: which Rosedale Pathways this program belongs to
Faculty or Department or School: a division within a university comprising of similar subject areas
Credentials to be Received: the credentials received at graduation.
Typical OSSD Admission Requirements: which Grade 12 OSSD courses students should take to enter the program
Majors Available: a specialization in a particular subject that is within the program. They are also known as specializations, concentrations, and options.
Sample First-Year Courses: Examples of courses that students may need to take in their first year
Career Examples: potential careers that students can enter following graduation with this program degree.
Institution & Program Examples: Examples of Canadian schools that offer the program & program name

每一个专业的介绍会包含以下信息：
罗斯德大学申请专业类别：包含在哪一个罗斯德大学申请专业类别
院系：大学里统一开设类似相应课程的单位
学位：该专业毕业后获得的学历学位名称
OSSD 录取要求：想要申请该专业的学生需要学习的 12 年级课程
开设专业：该专业开设的、可以选择的，不同研究方向。也可以同时理解为"专修"、"主修"、"选修"
大一课程举例：列举一些学生在大学一年级可能要学习的课程
就业机会：获得学位顺利毕业之后，学生可以从事的职业领域
相关大学及专业举例：列举一些加拿大大学开设这个专业的具体情况。

Table of Contents

Biology

Rosedale Pathways: Environment & Agricultural Systems/Health Sciences
Faculty: Science
Degree: Bachelor of Science
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, 2 of SCH4U, SBI4U or SPH4U, 1 additional 4U/M course

Program Description
Biology is the study of living organisms. By understanding and defining what constitutes life, students are able to study individual components of organisms while understanding the relation to the whole organism. Students will study the many levels of biological organization, from the molecular level to the biosphere. Laboratory work, combined with practical field experience, allow students to directly engage in research.

Majors can include: Animal Biology, Biotechnology, Microbiology, Molecular genetics, Plant Biology, Bioinformatics and Computational Biology, Biophysics, Psychology

*In Canada, students interested in being a doctor must complete 3-4 years of a Bachelor's degree, then apply to Medical School. Students tend to take their undergraduate degree in Biology or Health Sciences.
**Most students who graduate with a Bachelor of Science will need to do a Graduate (Masters or PHD) or professional degree to move onto their careers.

Sample First-Year Courses: Zoology, Cell Biology, General Chemistry, Physics, Mathematics, Ecology, Plant Structure & Function, Psychology

Career Examples:

With only an undergraduate degree: animal care worker, clinical research assistant, forensic laboratory analyst, health care administrator, lab technician,

With additional study: Microbiologist, Researcher, Genetic Counsellor, Zoologist, Toxicologist, Bioinformatics Specialist, Veterinarian, Ecologist, Physician

Examples of Schools & Programs

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
University of British Columbia	Science	**Biology** Majors include: Animal Biology, Conservation Biology, Computer Science & Biology, Marine Biology, Plant Biology	• Bachelor of Science
University of Calgary	Science	**Biological Sciences**	• Bachelor of Science
Dalhousie University	Science	**Biology**	• Bachelor of Science
University of Guelph	Science	**Science** Common first year courses, but choose major during application. Majors include: Animal Biology, Biodiversity, Molecular Biology and Genetics, Plant Science	• Bachelor of Science
St. Lawrence College	Science	**Biotechnology** Joint program with Queen's University. 3 years at St. Lawrence College to receive a diploma, then move onto Queen's for 2 years to complete the degree.	• Biotechnology Advanced Diploma AND Bachelor of Science (Honours), Specialization in Biotechnology

生物

罗斯德大学申请专业类别：<mark>环境农业系统</mark>，<mark>健康科学</mark>
院系: 科学
学位: 科学学士

OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分，SCH4U 化学、SBI4U 生物 、SPH4U 物理三门课中的两门，额外一门 12 年级 U/M 级别的课程

专业介绍

生物课程是一门学习生物体的科目。学习并定义生命是由什么组成的，学生学习生物体的组成成分和相互之间的联系。学生会学习不同级别的生物组织，从分子到生物圈。实验室学习和实地考察相结合，帮助学生直接进行研究。

*在加拿大，如果学生想成为医生，必须要先用 3-4 年的时间完成一个本科学位，然后申请医学院。申请医学院的学生都会选择生物或健康科学的本科专业。

**大部分获得科学学士的学生会需要就读研究生学院（获得硕士或博士学位）或是取得另一个职业相关学位之后，再选择就业。

大一课程举例：动物学、细胞生物学、基础化学、物理、数学、生态学、植物结构与作用、心理学。

就业机会：只有本科学历可以选择的就业方向有：动物保护工作者、诊所研究助理、法医、健康保健专员、实验技术员。有额外的学习经历可以选择的就业方向有：微生物学家、研究院、基因咨询师、动物学家、毒理学家、生物信息专家、兽医、生态学家、理疗师。

院校	科系	开设专业	获得学位
英属哥伦比亚大学	科学	**生物** 专业包括：动物生物、生物保护、海洋生物、植物生物	• 科学学士
卡尔加里大学	科学	**生物科学**	• 科学学士
达尔豪斯大学	科学	**生物**	• 科学学士
圭尔夫大学	科学	**科学** 每个专业的大一课程是统一的，但是申请的时候需要选择之后的专业方向：动物生物，生物多样性、分子生物和基因、植物科学	• 科学学士
圣劳伦斯学院	科学	**生物科技** 与女王大学合办的项目，在圣劳伦斯学院就读三年获得文凭，在女王大学就读两年获得学士学位。	• 生物科技高级文凭和荣誉科学学士，生物科技专业

Business Administration

Rosedale Pathway: Business, Marketing & Management
Faculty: Business, Commerce
Degree: Bachelor of Business Administration (BBA), Bachelor of Commerce (BComm), Bachelor of Management & Organizational Studies (BMOS)
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, MDM4U (recommended), 2 additional 4U/M courses

Program Description:
Whether you wish to work for a large multinational company, to run a not-for-profit organization, or to start your own small business, a business degree will give you the knowledge and skills you will need. Business students take courses in accounting, communications, entrepreneurship, finance, management, marketing, organizational behavior and strategy as well as a variety of courses of their choice in the arts and sciences.

In most Business programs, students enter a general first year of Business studies, and then following this general first year, they will then choose the major/specialization they are interested in. However, there are some schools that offer Direct Entry Majors.

Majors Include: Accounting, Economics, Entrepreneurship, Finance, Human Resource Management, Marketing, Management

Sample First-Year Courses: Introductory to Financial Accounting, Business Statistics, Microeconomics, Macroeconomics, Principles of Marketing, Global Management

Career Examples: Data Scientist, Management Consultant, Project Manager, Market Researcher, Supply Chain Manager, Business Analyst, Insurance Underwriter, Finance Analyst

Examples of Schools & Programs

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
University of Toronto (ON)	Faculty of Arts & Sciences – Rotman Commerce	**Rotman Commerce** Specializations include: Accounting, Finance and Economics, Management	• Bachelor of Commerce (BCom)
Wilfrid Laurier University (ON)	Lazaridis School of Business & Economics	**Business Administration** Specializations include: Accounting, Marketing Communications, Entrepreneurship, International Business, etc.	• Bachelor of Business Administration (BBA)

University of Alberta (AB)	Faculty of Business	**Business Studies** No admission directly from high school. Students first complete a year in university in another faculty then apply in second year.	• Bachelor of Commerce (BCom)
King's University College (Western University) (ON)	Management & Organizational Studies	**Management & Organizational Studies** Specializations include: Accounting, Global Commerce, Human Resources, Finance and Administration Students can apply for AEO (Advanced Entry Opportunity) into Western's Ivey Honours Business Administration program. If accepted for AEO, students do two years at King's, then they move onto Ivey business for the next two years. AEO applications require strong academics (90%+) and strong leadership skills.	• Bachelor of Management and Organizational Studies (BMOS)
Niagara College	School of Hospitality, Tourism & Sport	**Sport Management** 3 year program	• Sport Management Diploma

工商管理

罗斯德大学申请专业类别：<mark>商业、市场及管理</mark>
院系：商科、商学院
学位：工商管理学士学位、 商科学士学位、管理与组织研究学士学位
OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分，MDM4U 数据管理（建议学习科目），额外两门 12 年级 U/M 级别的课程
专业介绍：无论你希望在大的跨国企业工作还是想要运营非盈利组织，或是创建自己的公司，商科学位的学习都可以帮助你获得所需知识技能。上课学生的课程包括会计、交际、创业、金融、管理、市场营销、组织行为策略等。同时学生也可以选修文理科的各种课程。大部分的商科项目，学生大一的课程都是基础的商科知识学习，之后学生可以选择自己感兴趣的具体专业方向进行学习研究。但是有一些学校提供专业直接入读的机会。
开设专业: 会计、经济学、创业、金融、人力资源管理、市场营销、管理
大一课程举例：金融会计入门、商务数据、微观经济学、宏观经济学、市场营销理论、全球管理。
就业机会：数据分析师、管理咨询师、项目经理、市场调研员、供应链经理、工商分析师、保险经纪,金融分析师

ACADEMIC PROGRAM DESCRIPTIONS 大学专业简介

院校	科系	开设专业	获得学位
多伦多大学（安大略省）	文理学院-罗德曼商学院	**罗德曼商学院** 专业包括: 会计、金融、经济学、管理	• 商科学士(BCom)
劳瑞尔大学（安大略省）	Lazaridis 商学院	**工商管理** 专业包括: 会计、市场交流、创业、国际商务等	• 工商管理学士学位
阿尔伯塔大学(阿尔伯塔省)	商学院	**商科** 高中生不能直接申请.学生需要在其他专业完成大一学习，大二进入该专业学习。	• 商科学士
西安大略大学国王大学学院	管理与组织研究	**管理与组织研究** 专业包括: 会计、全球商务、人力资源、金融与行政 学生可以申请著名的易伟商学院的提前录取机会。如果获得这个机会，学生可以在国王大学学院完成大一大二的学习，大三进入易伟商学院。申请 AEO 要求学生 12 年级平均分不低于 90%，同时具备卓越的领导才能。	• 管理与组织研究学士学位
尼亚加拉学院	酒店旅游运动管理学院	**运动管理** 3 年项目	• 运动管理文凭

Communications & Media Studies

Rosedale Pathway: <mark>Communication & Information Systems</mark>/ <mark>Business, Marketing & Management</mark>
Faculty: Arts, Liberal Arts
Degree: Bachelor of Arts
Typical OSSD Admission Requirement: ENG4U, 5 additional 4U/M courses

Program Description
Media delivers information to society and humans engage in all modes of communication to shape their interactions. This program is designed to give students the critical skills needed to negotiate the communication demands and challenges of contemporary industries that teach how to understand the changing mediascape affecting society. Students will learn how to examine the influence of advertising and ideology, the political economy of media corporations and the principles of multimedia design.

Sample First-Year Courses: Creative Processes, Introduction to Media Theory and Practice, Digital Media, Professional Writing, Language & Power, Graphic Communications, Principles of Marketing, Design & Layout

Career Examples: Communications Director, Media Consultant, Social & Digital Media Officer, Public Relations Specialist, Content Developer, Journalist, Advertising & Marketing Executive, Production Manager, App Developer, Graphic Designer

Examples of Schools & Programs

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Ryerson University (ON)	Faculty of Communication & Design: School of Graphic Communications Management	Graphic Communications Management	• Bachelor of Technology (BTech)
Carleton University (ON)	School of Journalism & Communication	**Communication & Media Studies**	• Bachelor of Communication and Media Studies (BCoMS)
Concordia University (QC)	Faculty of Arts & Sciences	**Communication Studies**	• Bachelor of Arts
Mount Royal University (AB)	School of Communication Studies	**Public Relations**	• Bachelor of Communication
Humber College (ON)	School of Media Studies	**Media Communications** 2 years, has a mandatory work placement	• Media Communications Diploma

交际与传媒研究

罗斯德大学申请专业类别：<mark>交际与信息系统</mark>/<mark>商业、市场及管理</mark>
院系：艺术、文科
学位：文科学士
OSSD 录取要求：12 年级 ENG4U 英语，额外五门 12 年级 U/M 级别的课程
专业介绍：传媒向社会传递信息，人类通过使用各种交际手段进行互动沟通。这一专业帮助学生提升批判性思维应对交际协商，已经现代产业带来的挑战。学生通过这个专业的学习，可以更好地理解影响社会的多变媒体视角。学生也将审视广告和意识形态的影响，传媒企业的政治经济与多媒体设计理论。
大一课程举例：创意制作、传媒理论实践入门、数码媒体、专业写作、语言力量、图像交际、市场营销理论、设计
就业机会：交际主管、媒体咨询、社交媒体管理、公关专员、内容开发、记者、广告与市场管理、销量经理、应用程序开发、图像设计师

相关大学及专业举例：

院校	科系	开设专业	获得学位
瑞尔森大学 ON	交际与设计学院：图像交际管理系	图像交际管理	• 科技学士学位(BTech)
卡尔顿大学 ON	新闻交际学院	**交际与媒体研究**	• 交际与媒体学士学位
肯考迪亚大学(QC)	文理学院	**交际研究**	• 文科学士
皇家山大学(AB)	交际学院	**公共关系**	• 交际学士学位
汉博学院(ON)	传媒学院	**传媒交际** 2 年的项目,有必修的工作实践机会	• 传媒交际文凭

Computer Science

Rosedale Pathway: Communication & Information Systems/Industrial, Manufacturing & Engineering Systems
Faculty: Arts & Sciences, Mathematics
Degree: Bachelor of Science
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, SPH4U (recommended), 2 additional 4U/M courses

Program Description:
Explore and develop applications that manipulate the speed and power of digital computation, design new models of computation, and uncover new methods of problem-solving. Students will learn the languages needed to explore different programming paradigms, develop and understand the algorithms behind new technology.

Differences between Computer Science and Computer Engineering:

Computer Engineering concentrates on designing, developing and operating computer systems, it focuses on designing and building computer hardware and software, while Computer Science concentrates on understanding, designing and developing the programming, and focuses on the theory, algorithms, program languages and computer architecture.

For example, the building of an iPhone requires both computer scientists and computer engineers:

Computer Engineers designed the chips that house the integrated circuits that make the iPhone's various components (cell radio, screen, controls, memory, microprocessor) function, and they figured out how to get the various components to work with each other. Computer Scientists wrote the operating system that manages the memory and concurrently running applications, the apps in the app store that run on top of that operating system, and the encrypting of data.

Sample First-Year Courses: Designing Functional Programs, Algebra, Calculus, Algorithm Design, Computer Organization

Career Examples: Computer Security, Software Engineer, Computer Scientist, Database Administrator, Software Application Developer, Research Scientist, Mobile Application Developer, Web Developer, Product Manager

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Waterloo University (ON)	Faculty of Mathematics	**Computer Science**	• Bachelor of Computer Science • Bachelor of Mathematics
Wilfrid Laurier University (ON)	Faculty of Science	**Computer Science**	• Bachelor of Arts • Bachelor of Science
Dalhousie University (NS)	Faculty of Computer Science	**Applied Computer Science**	• Bachelor of Applied Computer Science (BACSC)
University of Alberta (AB)	Faculty of Science	**Computing Science**	• Bachelor of Science

		Can minor in Business or specialize in Software Practice	
Sheridan College	Faculty of Applied Science & Technology	**Mobile Computing** 4 years	• Honours Bachelor of Computer Science

计算机科学

罗斯德大学申请专业类别： <mark>交际与信息系统</mark>/<mark>制造业及工程系统</mark>

院系：文理学院、数学系

学位：科学学士

OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分、SPH4U 物理（建议学习科目）额外两门 12 年级 U/M 级别的课程

专业介绍：研究发展计算机数码领域速度与力度操作的相关应用，设计新的计算机模型，开发问题解决的新方式。学生将会学习开发不同程序语言，开发理解新科技领域的各种算法。

计算机科学与计算机工程的区别:

计算机工程侧重于设计开发处理计算机系统，重点设计并创建计算机硬件软件。而计算机科学侧重于理解设计开发程序，注重学习理论、算法、项目语言、计算机构建等。

例如，iPhone 的制造需要计算机科研人员与计算机工程师的共同合作：

计算机工程师设计的芯片成为电路的载体，用以使 iPhone 的不同零件（音响、屏幕、控制键、内存、微处理）运行。他们研究出如何让所有零件共同工作。计算机科研人员写出管理内存，运行应用程序的操作系统以及加密数据。所有苹果商城的应用程序都包含在操作系统之中。

大一课程举例：设计功能程序、代数、微积分、运算设计、计算机组织

就业机会：计算机安全、软件工程、计算机科研、数据库管理、软件应用程序开发、调研员、移动应用程序开发、网站开发、产品经理

相关大学及专业举例:

院校	科系	开设专业	获得学位
滑铁卢大学(ON)	数学学院	**计算机科学**	• 计算机科学学士 • 数学学士
劳瑞尔大学(ON)	科学学院	**计算机科学**	• 文科学士 • 科学学士
达尔豪斯大学(NS)	计算机科学学院	**应用计算机科学**	• 应用计算机科学学士

阿尔伯塔大学(AB)	科学学院	**计算机科学** 可以辅修商科或专修软件应用	• 科学学士
谢尔顿学院	应用科学科技学院	**移动计算机** 4 年的项目	• 荣誉计算机科学学士

Creative Arts, Design (Music, Art, Dance, Theatre)

Rosedale Pathway: Communication & Information Systems
Faculty: Fine Arts, Design
Degree: Bachelor of Fine Arts, Bachelor of Arts
Typical OSSD Admission Requirement: ENG4U, 5 additional 4U/M course

Program Description:
For students interested in a career where they have a talent in the visual or performing arts. Many schools offer a combination of creative majors in design, dance, music, studio art, theatre, and much more. School utilize hands-on experiences in research facilities, studios, concert halls, and design labs.

To enter these programs students will typically need to submit as part of their application an art portfolio or a Performance Display/Interview.

Majors include: Studio Art, Art History, Dance, Interior Design, Graphic Design, Industrial Design, Fashion Design, Motion Picture Arts, Music Education, Theatre Studies

Sample First-Year Courses: Studio Fundamentals, Art History, Modern Art, World Cinema, Elements of Production, Creative Performance Studies

Career Examples: Professional Musician, Choral Director, Music Industry Worker, Actor, Director, Film Industry Worker, Fashion Designer, Product Developer, Art Historian

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Ryerson University (ON)	Faculty of Communication & Design: RTA - School of Media	**New Media** Concentrations in Critical Media Theory, Social Media, Narrative Media, Tangible Media, Computational Media	• Bachelor of Fine Arts (BFA)
University of Toronto (ON)	Faculty of Arts & Science - Cinema Studies Institute	**Cinema Studies**	• Bachelor of Arts
OCAD University (ON)	OCAD is an Art University – Faculties Include: Faculty of Art, Faculty of Design	Examples of programs: **Illustration, Graphic Design, Environmental Design, Advertising, Photography, Creative Writing, Integrated Media**	• Bachelor of Fine Arts (BFA) • Bachelor of Design (BDes)

Emily Carr University (BC)	Emily Carr is an Art University – Faculties Include	Examples of programs: **Industrial Design, Interaction Design, 3D Computer Animation, Film & Screen Arts**	• Bachelor of Fine Arts (BFA) • Bachelor of Design (BDes) • Bachelor of Media Arts (BMA)
Vancouver Film School (BC)		**Film Production** **1 year program**	• Diploma in Film Production

创意艺术、设计、媒体 （音乐、艺术、舞蹈、戏剧）

罗斯德大学申请专业类别： <mark>交际与信息系统</mark>
院系：艺术、设计
学位：艺术学士学位、文学学士学位
OSSD 录取要求：12 年级 ENG4U 英语，**额外五门** 12 年级 U/M 级别的课程
专业介绍：适合擅长视觉或表演艺术，有意从事相关工作的学生。很多院校开设综合类创意专业，包括设计、舞蹈、音乐、工作室艺术以及戏剧等等。学校将实践与研究、工作室、音乐会、设计实验室等相结合。

为了进入这一专业学习，学生一般要提交作品集或参加表演试镜面试作为申请材料的一部分。

开设专业：艺术工作室、艺术史、舞蹈、室内设计、平面设计、工业设计、时尚设计、电影艺术、音乐教育、戏剧等。
大一课程举例：工作室基础、艺术史、现代艺术、世界电影、制作元素、创意表演学

就业机会：专业音乐家、合唱导演、音乐领域工作者、演员、导演、电影业工作者、时尚设计师、产品经理、艺术史学家。

相关大学及专业举例：

院校	科系	开设专业	获得学位
瑞尔森大学 (ON)	交际设计学院: RTA – 传媒系	**新媒体** 专业包括：批判性媒体理论、社交媒体、叙事媒体、有形媒体、计算机媒体	• 艺术学士(BFA)
多伦多大学 (ON)	文理学院- 电影学系	**电影学**	• 文学学士
安大略艺术设计大学(ON)	安大略艺术设计大学是一所艺术大学–院系包括艺术学院、设计学院	专业包括: **插图、图像设计、环境设计、广告、摄影、创意写作、综合媒体**	• 艺术学士 • 设计学士(BDes)

艾米丽卡尔艺术与设计大学(BC)	艾米丽卡尔艺术与设计大学是一所艺术大学– 院系包括	专业包括: **工业设计、互动设计、3D 电脑动画、电影荧幕艺术**	• 艺术学士 • 设计学士(BDes)
温哥华电影学院 (BC)		**电影制作** 一年的项目	• 电影制作文凭

Economics

Rosedale Pathway: Human Services & Resources/Business, Marketing & Management Pathway
Faculty: Social Sciences
Degree: Bachelor of Arts (Some schools offer it as a Bachelor of Science)
Typical OSSD Admission Requirement: ENG4U, MHF4U, 4 additional 4U/M courses

Program Description
Economics is the study of humanity in the ordinary business of life. It seeks to establish principles for investigating how resource constraints influence the behaviour of individuals, firms, organizations and the government. In some universities, there is a deliberate blending of theory with application, providing students with the analytical tools required for a greater understanding of economic relations and motivations. It shows how and where these tools can be applied in the economic, social and political dimensions of society. Students can combine economics with other areas of study including business, mathematics or computer science. Economics often leads to careers in banking, provincial, federal and municipal governments, law, consulting and numerous private sector firms, or to graduate studies in such fields as economics, public policy, international relations, environmental policy and law.

Sample First-Year Courses: Microeconomics, Macroeconomics, Mathematics for Economics, Critical Thinking, Statistics

Career Examples: Financial Analyst, Statistician, International Trade Specialist, Market Research Analyst, Actuary, Economist, Policy Planners

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Wilfrid Laurier University (ON)	Lazaridis School of Business & Economics	Economics Can specialize in Financial Management, and Accounting	• Bachelor of Arts
Ryerson University (ON)	Faculty of Arts	International Economics & Finance	• Bachelor of Arts
University of Regina (SK)	Faculty of Arts	Philosophy, Politics and Economics	• Bachelor of Arts
Simon Fraser University (BC)	Faculty of Arts & Social Sciences	Economics	• Bachelor of Arts

经济学

罗斯德大学申请专业类别：人文服务资源/商业、市场及管理

院系：社会科学

学位：文学学士（有些学校颁发科学学士）

OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数，**额外 4** 门 12 年级 U/M 级别的课程

专业介绍：经济学是一门研究人的日常经济生活的学科。旨在建立资源如何限制影响个人、企业、组织和政府行为的原则。有些大学将理论和应用有意结合，提供给学生一系列帮助理解经济关系和动机的分析工具，并表明这些工具如何应用于经济、社会、政治的方方面面。学生可将经济与其他研究领域如商业、数学、计算机科学相结合。经济学给学生提供广阔的前景如从事经济学、公共方针政策、国际关系、环境政策和法律工作，或作进一步深入学习。

大一课程举例：微观经济学、宏观经济学、经济学数学、批判性思维、数据。

就业机会：金融分析、数据、国际贸易专员、市场调研员、精算师、经济学家、政策规划

相关大学及专业举例:

院校	科系	开设专业	获得学位
劳瑞尔大学(ON)	商学院	经济学 专业包括：金融管理、会计	• 文学学士
瑞尔森大学(ON)	文科学院	国际金融经济学	• 文学学士
里贾纳大学(SK)	文科学院	哲学政治经济学	• 文学学士
Simon Fraser University (BC)	文科社科学院	经济学	• 文学学士

ACADEMIC PROGRAM DESCRIPTIONS 大学专业简介

Education

Rosedale Pathway: Human Services & Resources/Business, Marketing & Management Pathway

In Canada, students cannot enter a Bachelor of Education (BEd) program directly from High School. Students must do 4 years of an undergraduate degree first and then apply to enter a 2-year BEd program. Alternatively, students who are interested in working with pre-school children can take a direct-entry program in university/college in Early Child Education or Child & Youth Studies.

Many schools now offer a direct-entry **concurrent education** program, where students earn two degrees at the same time. Courses will be taken in both the Faculty of Education and the faculty offering the students' program of interest throughout the first 4 years, and then they automatically enter into the two years in the Faculty of Education to receive the BEd degree.

Students should take their academic undergraduate degree in the field that they are interested in teaching.

Faculty: Education, Arts
Degree: Bachelor of Arts, Bachelor of Education (If doing Concurrent Education)
Typical OSSD Admission Requirement: ENG4U + 5 4U/M courses (requirements for the academic program students are interested in must be met)

Career Examples: Counsellor, Child & Youth Worker, Teacher, Child Protection Worker, Researcher, Youth Program Developer, Social Worker, Policy Analyst, Adult Education Trainer, Corporate Trainer

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Brock University (ON)	Education	**Concurrent Education**	• Bachelor of Arts/Science & Bachelor of Education (6 years)
University of Ontario Institute of Technology	Education	**Concurrent Education**	• Bachelor of Arts/Science & Bachelor of Education (6 years)
Ryerson University (ON)	Faculty of Community Service	**Child & Youth Care**	• Bachelor of Arts
Capilano University (BC)	Faculty of Education, Healthy & Human Development	**Early Childhood Care & Education**	• Bachelor of Early Childhood Care and Education (BCCE)
Seneca College	Early Childhood Education	**Child Development** 4 years, has a mandatory work term	• Honours Bachelor of Child Development (BCD)

教育

罗斯德大学申请专业类别：人文服务资源/商业、市场及管理

在加拿大，高中生没有办法直接申请教育学士项目。学生必须先完成 4 年的本科学位学习，接下来再读两年的教育学士项目。另一方面，如果对学龄前儿童教育感兴趣的学生，可以直接进入大学或学院的幼儿早期教育或青少年研究等专业就读。

许多学校现在提供直接入读的并行教育专业，学生可以同时完成两个学位。在前四年的时间，学生可以同时学习教育学院以及自己感兴趣专业的课程。之后自动进入到两年的教育专业学习获得教育学士学位。

学生的学术本科学位要选择自己之后想要教课的领域。

院系：教育学院、文科。

学位：文学学士、教育学士（入读并行教育专业可获得）

OSSD 录取要求：12 年级 ENG4U 英语，额外 5 门 12 年级 U/M 级别的课程（同时需要满足感兴趣的学术专业的入学要求）

就业机会：咨询老师、青少年工作者、老师、儿童保护工作者、研究员、青少年项目开发人、政策分析师、成人教育培训师、企业培训师

相关大学及专业举例:

院校	科系	开设专业	获得学位
布鲁克大学(ON)	教育系	**并行教育专业**	• 文学或科学学士& 教育学士(6 年)
安省理工大学	教育系	**并行教育专业**	• 文学或科学学士& 教育学士(6 年)
瑞尔森大学(ON)	社区服务学院	**幼儿青少年服务**	• 文学学士
卡普兰诺大学(BC)	教育系,健康人类发展学院	**早期儿童教育**	• 早期儿童教育学士(BCCE)
圣力嘉学院	早期儿童教育学院	**儿童发展** 4 年项目，有必修的工作实践机会	• 荣誉儿童发展学士(BCD)

Engineering

Rosedale Pathway: <mark>Industrial, Manufacturing & Engineering Systems</mark>
Faculty: Applied Science
Degree: Bachelor of Applied Science (BASc), Bachelor of Engineering (BEng)
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, SPH4U, SCH4U, 1 additional 4U/M courses

Program Description: Engineers are the artists of science. Through the process of design, they apply science to develop innovative solutions to problems. The integration of curriculum and technology exposes students to various computer applications employed in the private and public sectors. Numerous branches of engineering provide students diversity in their profession of choice.

The main 4 Engineering Disciplines include:

Civil Engineering: the design and maintenance of infrastructure that society depends on: buildings, bridges, highways, airports, tunnels, dams, pollution-control facilities and more. Due to their knowledge in materials and the environment, civil engineers are used to help analyze problems like coastal erosion or protect buildings from earthquakes.

Mechanical Engineering: This is considered the broadest of engineering disciplines because there are many overlaps into many other existing engineering disciplines. Mechanical Engineers work in all kinds of fields, constantly looking for ways to make machinery faster, lighter, cleaner and more reliable.

Electrical Engineering: The focus is on all things electrical or electronics-related. This includes electronic devices, electrical systems, electrical energy, etc. Electrical engineers design, develop, and with electrical systems. This could be to help develop efficient power methods and performance applications to help improve electronic system performance.

Computer Engineering: Computer engineering bleeds into electrical engineering a little, but its main focus is to design and integrate computer systems, combining the worlds of hardware and software components.
* See the Computer Science section to lean more about differences between Computer Engineering & Computer Science

Other more specialized forms of Engineering include:
Chemical, Biomedical, Industrial, Environmental, Geological, Geomatics, Mining, Forest, Biological, Software or Metallurgical Engineering.

Sample First-Year Courses: Chemistry, Mechanics, Linear Algebra, Calculus, Computational Methods, Structure & Properties of Materials, Linear Circuits

Career Examples: Site Supervisor, Structural Engineer, Coastal Engineer, Structural Designer, Electrical Control & Design Engineer, Software Developer, Energy Analyst

ROSEDALE ACADEMY **ACADEMIC PROGRAM DESCRIPTIONS 大学专业简介**

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
University of Ontario Institute of Technology (ON)	Engineering & Applied Science	Engineering programs include: Automotive, Electrical, Mechatronics, Mechanical, Software Engineering	• Bachelor of Engineering
Waterloo University (ON)	Engineering	Engineering Programs include: Civil, Environmental, Mechatronics, Management, Nantechnology, Biomedical Engineering	• Bachelor of Applied Science
Lakehead University (ON)	Engineering	Engineering Programs include: Chemical, Civil, Electrical, Mechanical Engineering	• Bachelor of Engineering
University of Calgary (AB)	Schulic School of Engineering	Engineering Programs include: Chemical, Electrical, Civil, Geomatics, Oil & Gas, Mechanical, Energy Engineering	• BSc in Engineering
Camosun College (BC)		**Engineering Bridge** Students spend 3 years at Camosun and receive an Advanced Diploma, then they move directly into 3rd year Engineering at UBC or University of Victoria.	• Advanced Diploma in Engineering AND Bachelor of Applied Science/Engineering

工程

罗斯德大学申请专业类别：工业、制造业及工程系统
院系：应用科学
学位：应用科学学士、工程学士
OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分、SPH4U 物理、SCH4U 化学，额外 1 门 12 年级 U/M 级别的课程
工程专业的四大学科包括：

土木工程：设计维护基础设施建设：建筑、桥梁、高速公路、机场、隧道、大坝、污染治理设施等。土木工程师具备材料与环境的相关知识，可以帮助分析海岸侵蚀问题或防止地震毁坏建筑物等

机械工程：工程专业最广泛的学科，基本上涵盖了所有其他的工程学科。机械工程师工作于很多领域，他们主要负责寻找更快捷，轻便，干净，可靠地使用机械的方法。

电子工程：主要从事电子、电气相关的工作。包括电子设备、电子系统、电子能源等。电子工程师设计、开发电子系统。比如，开发有效的能源方式或应用提升电子系统的工作效率。

计算机工程：计算机工程与电子工程专业的内容有所融合，但是更侧重于设计运用计算机系统，联合硬件软件的组成部分。.

* 请查看计算机科学专业部分了解计算机工程与计算机科学专业的区别

其他工程专业的学科方向包括:
化学、生物医疗、工业、环境、地质、采矿、林业、生物、软件、冶金工程。

大一课程举例：化学、机械、线性代数、微积分、计算机方法、材料结构与成分、设计功能程序、代数、微积分、运算设计、计算机组织、线性电路
就业机会：网络监控、结构工程师、海岸工程师、结构设计师、电子控制与设计工程师、软件开发、能源分析。

相关大学及专业举例:

院校	科系	开设专业	获得学位
安省理工大学(ON)	工程及应用科学	工程项目包括: 汽车, 电子, 机电, 机械, 软件工程	• 工程学士
滑铁卢大学(ON)	工程	工程项目包括: 土木, 环境, 机电, 管理, 纳米科技，生物医疗工程等	• 应用科学学士
湖首大学(ON)	工程	工程项目包括: 化学, 土木、电子、机械工程	• 工程学士
卡尔加里大学(AB)	舒力克工程学院	工程项目包括: 化学, 土木、电子、机械工程、地理信息、石油天然气、能源工程	• 科学学士（工程方向）
卡莫森学院 (BC)		**工程桥梁课程** 学生在卡莫森学院学习三年，获得高级文凭，然后直接入读 UBC 大学或维多利亚大学的工程专业大三。	• 工程高级文凭和应用科学/工程学士

Environmental Science

Rosedale Pathway: <mark>Environment & Agricultural Systems</mark>
Faculty: Science
Degree: Bachelor of Science (BSc), Bachelor of Environment
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, SCH4U, SBI4U or SPH4U, 1 additional 4U/M course

Program Description
Environmental Science is the study of the relationships and interactions among organisms, their environment and human activity. Understanding and solving the problems associated with how humans impact the environment, requires a multidisciplinary approach involving Biology, Chemistry and Geology. Students are presented with actual environmental/ scientific issues and under the leadership of faculty, develop the expertise to apply their knowledge to problems. Curriculum is integrated with technology and field work, giving students the hands-on experience necessary to conduct individual research and acquire investigative and experimental skills. Environmental Science offers students the option to pursue graduate studies or secure employment in a variety of fields such as agriculture, fisheries, government labs and agencies, natural resources, policy and planning, resource conversation and remediation.

Sample First-Year Courses: Diversity of Life, Chemical Reactions, Physics, Calculus, Physical & Chemical Properties of Matter, Ecology, Natural Resource Management

Career Examples: Urban and Regional Planner, Environmental Protection Officer, Environmental Scientist, Research & Development Technician

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
University of Guelph (ON)	School of Environmental Sciences	**Environmental Sciences** Majors include: Ecology, Environment & Resource Management, Environmental Economics & Policies	• Bachelor of Science in Environmental Sciences
University of British Columbia (BC)	Science	**Earth and Ocean Sciences**	• Bachelor of Science
McGill University (QC)	Faculty of Agriculture and Environmental Science	**Agriculture & Environmental Science** Majors include: Agricultural Economics, Agro-environmental Sciences, Environmental Biology, Global Food Security	• Bachelor of Science in Agriculture and Envrionmental Science (BSc (Ag.Env.Sc.))
Simon Fraser University (BC)	Faculty of Environment	**Environmental Science** Concentrations include: Applied Biology, Environment Earth Systems, Environmetrics, Water Science	• Bachelor of Science

Cambrian College (ON)	Safety & Environmental Studies	**Environmental Technician** 2 years with 6-week internship	• Environmental Technician Diploma

环境科学

罗斯德大学申请专业类别：<mark>环境、农业系统</mark>

院系：科学

学位：科学学士、环境学学士

OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分、SPH4U 物理、SBI4U 生物或 SCH4U 化学，额外 1 门 12 年级 U/M 级别的课程

专业介绍：

环境科学是研究生物与环境和人类活动的关系的学科。理解并解决人类如何影响环境的问题需要跨学科间的知识，具体涉及生物、化学和地质。学生在教师的带领下提出环境科学问题，学习专业知识技能并应用于实际问题。课程由专业技术和实地考察相结合，锻炼学生实际能力以进行个人研究，从而获取进行调查和实验的技能。环境科学给学生提供进一步深入学习的硕士课程，以及广阔的就业途径，例如农业、渔业、政府实验室和政府相关机构，自然资源、政策规划、资源修复。

大一课程举例：生物多样性、化学反应、物理、微积分、物理化学物质构成、地质、自然资源管理

就业机会：城市区域规划、环境保护官员、环境科学家、研究发展技术人员。

相关大学及专业举例：

院校	科系	开设专业	获得学位
圭尔夫大学(ON)	环境科学学院	**环境科学** 专业包括：地质、环境与资源管理、环境经济与政策	• 科学学士（环境科学专业）
英属哥伦比亚大学(BC)	科学学院	**地球海洋科学**	• 科学学士
麦吉尔大学(QC)	农业与环境科学学院	**农业与环境科学** 专业包括：农业经济学、农业环境科学、环境生物学、全球食品安全。	• 科学学士（农业环境科学专业）(BSc (Ag.Env.Sc.))
西蒙菲沙大学(BC)	环境学院	**环境科学** 专业包括:应用生物,地球环境系统,环境度量,水资源科学	• 科学学士
凯布莱恩学院 (ON)	安全与环境科学	**环境技术** 两年项目有 6 周实习机会	• 环境技术文凭

Health Sciences/Life Sciences

Rosedale Pathway: Health Sciences
Faculty: Science
Degree: Bachelor of Science (BSc), Bachelor of Health Science (BHSc)
Typical OSSD Admission Requirement: ENG4U, SCH4U, SBI4U, MHF4U, 2 additional 4U/M courses

Program Description:
This program is for students with an interest in wellness, illness, and medicine. This program begins education at the cellular level. This program is ideal for students who want to focus on research and healthcare.

*In Canada, students interested in being a doctor must complete 3-4 years of a Bachelor's degree, then apply to Medical School. Students tend to take their undergraduate degree in Biology or Health Sciences.
**Most students who graduate with a Bachelor of Science will need to do a Graduate (Masters or PHD) or professional degree to move onto their careers.

Sample First-Year Courses: Cellular and Molecular Biology, Chemistry, Physics, Genetics, Organic Chemistry, Psychology

Career Examples: Physician, Physiotherapist, Dentistry, Pharmacist, Forensic Lab Analyst, Geneticist, Public Health Policy Analyst

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Queen's University (ON)	Arts & Sciences	**Life Sciences**	• Bachelor of Science
McMaster University (ON)	Health Sciences	**Health Sciences**	• Bachelor of Health Sciences (BHSc)
University of Victoria (BC)	Health & Life Sciences	**Kinesiology**	• Bachelor of Science
University of Saskatchewan (SK)	College of Arts & Science	**Physiology & Pharmacology**	• Bachelor of Science
Conestoga College (ON)	School of Health & Life Sciences	**Health Care Administration and Service Management** 2 years	• Health Care Administration and Service Management Diploma

健康科学、生命科学

罗斯德大学申请专业类别：<mark>健康科学</mark>

院系：科学

学位：科学学士、健康科学学士

OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分、SBI4U 生物、SCH4U 化学，额外 2 门 12 年级 U/M 级别的课程

专业介绍：

对健康疾病医药相关课题感兴趣的学生可以申请这个专业。这个项目从细胞阶段的教育入手，想要专研健康医疗方面研究的同学可以选择这个专业。

*在加拿大，如果学生想成为医生，必须要先用 3-4 年的时间完成一个本科学位，然后申请医学院。申请医学院的学生都会选择生物或健康科学的本科专业。

**大部分获得科学学士的学生会需要就读研究生学院（获得硕士或博士学位）或是取得一个专业学位之后，再选择就业。

大一课程举例：细胞分子生物、化学、物理、基因学、有机化学、心理学

就业机会：理疗师、心理咨询师、牙医、药剂师、法医、基因学家、公共健康政策分析。

相关大学及专业举例：

院校	科系	开设专业	获得学位
女王大学(ON)	文理学院	**生命科学**	• 科学学士
麦克马斯特大学 (ON)	健康科学	**健康科学**	• 健康科学学士(BHSc)
维多利亚大学(BC)	健康及生命科学学院	**人体机能学**	• 科学学士
萨斯喀彻温大学 (SK)	文理学院	**生理学药理学专业**	• 科学学士
康尼斯托加学院 (ON)	健康及生命科学学院	**健康服务管理** 2 年项目	• 健康服务管理文凭

ROSEDALE ACADEMY

Humanities and Social Studies

Rosedale Pathway: Human Services & Resources/Environment & Agricultural Systems/Communication & Information Systems
Faculty: Social Sciences, Arts & Sciences
Degree: Bachelor of Arts
Typical OSSD Admission Requirement: ENG4U, 5 additional 4U/M courses

Includes the study of culture, arts, literature, writing or language. Humanities and social studies based majors develop students' analytical and critical thinking skills while giving students the opportunity to delve into the intellectual expression and cultural practices of the ancient and modern worlds. A strong humanities and social studies background provides the foundation for many professional fields including teaching, journalism, law, arts administration, and government service.

Programs within this field include: Asian Studies, Languages, Religion, Communications, English Studies, History, International Affairs, International Development, Philosophy, Political Studies, Sociology, Psychology

Sample First-Year Courses: Sociology, Critical Thinking, Academic Writing & Research, Philosophy

Career Examples: Museum Curator, Teacher, Lawyer, Information Specialist, Researcher, Politicians, Community Engagement Coordinator, Policy Researcher, Public Relations Officer

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
York University	Faculty of Liberal Arts & Professional Studies	**Criminology**	• Bachelor of Arts
King's University College (Western University)	Faculty of Social Sciences	**History**	• Bachelor of Arts
St. Thomas University (NB)	Humanities Department	**Philosophy**	• Bachelor of Arts
Trent University (ON)	Faculty of Sociology	**Sociology** With specializations in Criminology & Socio-Legal Studies or Health Studies	• Bachelor of Arts
George Brown College	School of Social and Community Services	**Social Service Worker** 2 years	• Social Service Worker Diploma

人文学科

罗斯德大学申请专业类别：人文服务资源/环境农业系统/交际信息系统
院系：社会科学、文理学院
学位：文学学士学位
OSSD 录取要求：12 年级 ENG4U 英语，额外 5 门 12 年级 U/M 级别的课程

专业介绍：

包括文化、文学、写作或语言学习等。人文学科以发展学生分析和批评性思维为基础，深入研究古今知识和文化。很多专业领域需要深厚的人文学科背景，如教学、新闻、法律、艺术管理及政府部门等等。

专业包括： 亚洲研究、语言、宗教、传媒、英语研究、历史、国际事务、国际发展、哲学、政治研究、社会学、心理学、幼儿早期教育等。

大一课程举例：社会学、批判性思维、学术写作研究、哲学
就业机会：博物馆馆长、老师、律师、信息专员、研究员、社区服务统筹、政策调研、公共关系官员。

相关大学及专业举例:

院校	科系	开设专业	获得学位
约克大学	文科及专业学习学院	**犯罪学**	• 文学学士
西安大略大学国王大学学院	社科学院	**历史**	• 文学学士
圣托马斯大学(NB)	人文学院	**哲学**	• 文学学士
特伦特大学(ON)	社会学学院	社会学 犯罪与社会法律研究或健康科学	• 文学学士
乔治布朗学院	社会与社区研究学院	**社工** 两年项目	• 社工文凭

Hospitality and Tourism

Rosedale Pathway: Human Services & Resources/Business, Marketing & Management Pathway
Faculty: Business, Arts & Sciences
Degree: Bachelor of Hospitality Management, Bachelor of Commerce (BComm), Bachelor of Arts (BA)
Typical OSSD Admission Requirement: ENG4U, MHF4U, MCV4U, MDM4U (recommended), 2 additional 4U/M courses

Program Description:
This is a multidisciplinary field of study with the purpose of preparing people with the expertise, commitment, and skills for management, marketing, and operations positions in the expanding industry that provides food, accommodations, and tourism services to people away from home. As a field of study. It draws upon a wide range of basic disciplines to provide the fundamental knowledge and skills that are required to fulfill the diverse demands placed upon individuals in management positions within the hospitality industry.

Sample First-Year Courses: Microeconomics, Food Service Operation & Control, Tourism, Statistics, Business Law

Career Examples: Event Planner, Restaurateur, Purchasing Agents, Travel Agents, Hotel General Manager, Wedding Coordinator, Chef, Front Desk Attendant, Meeting Coordinator, Conservation Officer

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors Available	Credentials to be Received
Brock University (ON)	Faculty of Social Sciences	Tourism Studies	• Bachelor of Arts
Lakehead University (ON)	Faculty of Social Sciences & Humanities	Outdoor Recreation Parks & Tourism	• Bachelor of Outdoor Recreation • Bachelor of Arts
Thompson Rivers University (BC)		**Tourism Management** Concentrations include: Adventure Studies, Festivals & Events, Resort Experience	• Bachelor of Tourism Management (BTM)
University of Guelph (ON)	Faculty of Commerce	**Commerce** Major in Hospitality and Tourism Management	• Bachelor of Commerce
Humber College	School of Hospitality, Recreation & Tourism	**Baking & Pastry Arts Management** 2 years	• Baking & Pastry Arts Management Diploma

酒店管理和旅游管理

罗斯德大学申请专业类别：<mark>人文服务资源</mark>/<mark>商业、市场及管理</mark>
院系：商科、文理学院
学位：酒店管理学士学位、文学学士学位、商科学士学位
OSSD 录取要求：12 年级 ENG4U 英语、MHF4U 高等函数、MCV4U 微积分，MDM4U 数据管理（建议学习科目），额外两门 12 年级 U/M 级别的课程
专业介绍：
通过跨学科学习，培养学生的专业知识、从业热情和管理、市场营销、组织运营等技能，为快速扩张的酒店旅游业输送餐饮、住宿、旅游等服务人才。该专业综合了多学科的基础知识、原理和技能，从而使学生全方位满足酒店旅游行业对人才的多样需求。
大一课程举例：微观经济学、食品服务操作控制、旅游业、数据、商务法
就业机会：活动策划、酒店经营者、采购、旅行社、宾馆经理、婚礼策划、主厨、前台接待、会议策划。

相关大学及专业举例:

院校	科系	开设专业	获得学位
布鲁克大学(ON)	社科学院	旅游研究	• 文学学士
湖首大学(ON)	人文社科学院	户外娱乐公园与旅游	• 户外娱乐学士 • 文学学士
汤普森河大学 (BC)		**旅游管理** 专业包括: 冒险研究, 节日与活动、景区经验	• 旅游管理学士(BTM)
圭尔夫大学(ON)	商学院	**商科** 旅游与酒店管理	• 商学院
汉博学院	旅游酒店娱乐学院	**糕点制作烘焙管理** 2 年项目	• 糕点制作烘焙管理文凭

Nutrition & Dietetics

Rosedale Pathway: Human Services & Resources/Health Sciences
Faculty: Science
Degree: Bachelor of Science in Nutrition
Typical OSSD Admission Requirement: ENG4U, SBI4U, SCH4U, MHF4U (recommended), 2 additional 4U/M courses

Program Description
Nutrition and Dietetics is the scientific study of food intake and human physiology. Students focus on nutrition, food safety, composition and policy. They study the biological and chemical aspects of nutritional sciences while integrating the psychological and sociological components of human well-being. Students are taught how to improve the quality of life for self, clients and community by motivating clientele and communicating the science behind food consumption. They also help others to gain an understanding of the composition and attributes of food.

*The difference between Nutrition and Dietetics is that dietetics is considered a professional program. Dietitians are a provincially regulated health professional and in most provinces in Canada are given a specific designation (Registered Dietitian – RD). To become a dietician, students must take a licensed dietetics program.

Sample First-Year Courses: Microeconomics, Macroeconomics, Mathematics for Economics, Critical Thinking, Statistics

Career Examples: Dietician, Health Consultant, Health Educator, nutritionist

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors	Degrees Available
McGill University	Faculty of Agriculture & Environmental Sciences: School of Human Nutrition	**Nutritional Sciences** Majors Available: Dietetics (licensed), Nutrition, Global Food Security	• Bachelor of Science in Nutritional Science
Brescia University College (Western University)	School of Food & Nutritional Sciences	4 programs within this School: - **Nutrition & Dietetics** (licensed) - **Food Science & Technology** - **Food & Nutrition** - **Dual Degree with Honours Business Administration (Through Western University)**	• BSc in Nutrition & Dietetics • BSc in Food Science & Technology • BA in Nutrition and Family • Bachelor of Management & Organizational Studies (BMOS) in Food Management • Dual Degree: BSc in Nutrition & Dietetics & BA in Honours Business Administration

Acadia University (NS)	School of Nutrition & Dietetics	**Nutrition** Options available: Dietetics (licensed), Biology Major, Chemistry Major, Psychology Major, Consumer Food, Kinesiology	• BSc in Nutrition
University of British Columbia (BC)	Faculty of Land & Food Systems	**Food, Nutrition & Health** Majors offered: Dietetics; Food Science; Food, Nutrition & Health; Food Market Analysis; Nutritional Sciences	• Bachelor of Science

营养学

罗斯德大学申请专业类别：人文服务资源/健康科学
院系：科学
学位：科学学士学位（营养学专业）
OSSD 录取要求： 12 年级 ENG4U 英语、MHF4U 高等函数（建议学习科目）、SBI4U 生物，SCH4U 化学，额外两门 12 年级 U/M 级别的课程
专业介绍：
营养学是一门学习饮食和人体生理学的学科。学生致力于营养和食品安全，食品成分和政策法规。学科主要研究营养科学的生物和化学组成，同时结合人类福祉的心理及社会层面。学生通过激励客户和交流食品消耗背后的学问来学习如何提高生活质量，并帮助他人理解食品的组成和属性。

*营养学与营养饮食学的区别在于营养饮食学是一个注重培养学生就业能力的专业，营养师是加拿大每个省统一认证资历的健康方面的职业。在加拿大大部分的省份，合格的从业者将会被授予注册营养师的资格。想要成为注册营养师，学生必须要在可以授予资历的院校学习营养饮食学专业。

大一课程举例：微观经济学、宏观经济学、经济学数学、批判性思维、数据
就业机会：营养师、健康咨询顾问、健康教育家、营养研究者

相关大学及专业举例:

院校	科系	开设专业	获得学位
麦吉尔大学	农业环境科学学院 人类营养系	**营养科学** 专业包括：注册食品营养学、营养学、全球食品健康	• 营养科学学士

西安大略大学布雷西亚大学学院	食品营养学学院	学院的 4 个专业包括： - **注册食品营养学** - **食品科技** - **食品与营养学** - **营养学与工商管理双学位，（西安大略大学授课）**	• 食品营养学科学学士 • 食品科技科学学士 • 营养与家庭文学学士 • 关于与组织研究学士学位（食品管理方向） • 食品营养学科学或文学学士与工商管理学士双学位
阿卡迪亚大学(NS)	食品营养学	**营养学** 专业包括：注册食品营养学、生物、化学、心理学、食物销售、人体机能学	• 营养科学学士
英属哥伦比亚大大学(BC)	土地与食品系统学院	**食品、营养与健康** 专业包括：食品营养学、食物科学、食物营养与健康、食品市场分析、营养科学	• 科学学士

Psychology

Rosedale Pathway: Human Services & Resources/Health Sciences
Faculty: Science, Arts
Degree: Bachelor of Science (BSc), Bachelor of Arts (BA)
Typical OSSD Admission Requirement:
BSc: ENG4U, MHF4U, MCV4U, SBI4U, 1 of SCH4U or SPH4U, 1 additional 4U/M course
BA: ENG4U, 5 additional 4U/M course

Program Description
Most universities will offer their Psychology program under the Arts Faculty AND under the Science Faculty.

For the BA Psychology program, explore the frontiers of the mind. Examine human behaviour from a variety of perspectives, including neuroscience, cognition, clinical, developmental, industrial/organizational, and social psychology.

For the BSc Psychology Program, you'll take a blend of psychology, science, and math courses with an emphasis on research methods and data analysis. You'll also have the chance to work in small groups, and get hands-on laboratory training. It is the starting point for a career in behavioural neuroscience, forensic psychology, or cognitive psychology — or for a medical career specializing in neurology, psychology, or pediatrics.

Sample First-Year Courses:

BSc: Calculus, Introduction to Psychology, Chemical Reactions, Physical and Chemical Properties of Matter, Biology

BA: Introduction to Psychology, Social Psychology, Organizational Psychology, Cognitive Processes

Career Examples: Psychologist, Child and Youth Worker, Teacher, Education Consultant, Researcher, Neuroscientist

Examples of Schools & Programs:

Institution	Faculty	Program Name/Majors	Degrees Available
York University (ON)	Faculty of Health	Psychology	• Bachelor of Arts • Bachelor of Science
Concordia University (QC)	Faculty of Arts & Sciences	Psychology	• Bachelor of Arts • Bachelor of Science
University of Victoria (BC)	Faculty of Social Sciences	**Psychology & Computer Science** This program is declared after one year of study	• Bachelor of Science
St. Lawrence College (ON)		**Behavioural Psychology** 4 years	• Honours Bachelor of Behavioural Psychology

心理学

罗斯德大学申请专业类别：人文服务资源/健康科学

院系：科学学院、文学学院

学位：科学学士学位、文学学士

OSSD 录取要求：

科学学士学位：12 年级 ENG4U 英语、MCV4U 微积分、MHF4U 高等函数、SBI4U 生物、SCH4U 化学和 SPH4U 物理两门课中的一门，额外 1 门 12 年级 U/M 级别的课程。

文学学士学位：12 年级 ENG4U 英语，额外 5 门 12 年级 U/M 级别的课程

专业介绍：

大部分大学的心理学专业同时在科学学院和文学学院开设。

文学学院开设的心理学项目主要是研究前沿的想法。从多角度研究人类行为，包括神经系统科学，认知，门诊、开发，工业组织以及社会心理。

科学学院开设的心理学项目中，学生可以学到心理学与科学数学相融合的课程知识，只要强调研究方法与数据分析。学生有机会进行小组任务，获得实验室实践培训机会。这是进入神经系统行为研究，犯罪心理学和认知心理学相关职业的入门学习机会。同时对于医疗相关专业比如神经学、心理学、儿科的基础。

大一课程举例：

科学学士：微积分、心理学入门、化学反应、物理化学物质成分

文学学士：心理学入门、社会心理学、组织心理学、认知过程

就业机会：心理咨询师、儿童与青少年工作者、老师、教育咨询、研究人员、神经科学家

相关大学及专业举例：

院校	科系	开设专业	获得学位
York University 约克大学 (ON)	Faculty of Health 健康学院	Psychology 心理学	• 文学学士 • 科学学士
肯考迪亚大学 (QC)	文理学院	- 心理学	• 文学学士 • 科学学士
维多利亚大学 (BC)	社科学院	心理学与计算科学 入读一年之后可以进入该专业学习	• 科学学士
圣劳伦斯学院 (ON)		**行为心理学** 4 年的项目	• 行为心理学荣誉学士