

Discipline C&I

University	Course #	Description	Level	ID1
Ecole Polytechnique	ENE6120	Simulat. et commande des réacteurs nucléaires	Diploma	99
Ecole Polytechnique	ELE6217	Systèmes à événements discrets	Grad	89
McMaster	ENG PHY 710	Reactor Dynamics and Control	Grad	3
UNENE / Western Ontario	UN0601	Control, Instrumentation & Electrical Systems NPPs	Grad	14
UOIT	NUCL 5280G	NUCL 5280G Advanced Reactor Control	Grad	211
UOIT	NUCL 5270G	C&I in CANDU	Grad	209
UOIT	NUCL 5285G	Advanced Process Control	Grad	132
UOIT	ENGR 4730U	Reactor Control	Undergrad	119
Western	ECE 9505	Control, Instrumentation & Electrical Systems NPPs	Grad	70

Discipline Chemistry

University	Course #	Description	Level	ID1
Carleton	CHEM 5905	Radiochemistry	Grad	61
New Brunswick	CHE 5804	Nuclear Chemical Processes	Grad	77
New Brunswick	CHE 5824	Corrosion Processes	Undergrad	78
RMC	CC565	Nuclear and Radiochemistry	Grad	55
Simon Fraser	NUSC 346-2	Radiochemistry Laboratory	Undergrad	184
Simon Fraser	NUSC 341-3	Introduction to Radiochemistry	Undergrad	180
Toronto	CHE1400H	Environmental Nuclear Science	Grad	39
Toronto	CHE 1533H	Nuclear Chemical Engineering	Grad	40
Toronto	CHE1149H	Electrolyte Thermodynamics	Grad	38

Toronto	CHE308H1 F	Chemical processes for energy generation &	Undergrad	34
UNENE / Toronto	UN1001	Reactor Chemistry and Corrosion	Grad	29
UOIT	RADI 3690U	Radiation Chemistry and Processing	Undergrad	193
UOIT	ENGR 4610U	Corrosion for Engineers	Undergrad	117
UOIT	ENGR 4510U	Nuclear Plant Chemistry	Undergrad	111
Discipline Civil				
University	Course #	Description	Level	ID1
Carleton	CHEM 4502	Radiochemistry	Undergrad	64
Western	CEE9619	Dynamics of Soils and Foundations	Grad	69
Discipline Electrical				
University	Course #	Description	Level	ID1
UOIT	ENGR 4360U	Nuclear Plant Electric and Auxillary Systems	Undergrad	152
UOIT	ENGR 2360U	Electric Power Systems	Undergrad	146
Discipline Environment				
University	Course #	Description	Level	ID1
Carleton	ISCI 2002	Human Impacts on the Environment	Undergrad	65
New Brunswick	CHE 5313	Energy and the Environment	Grad	83
RMC	CC537	Site Remediation	Grad	53
RMC	CCE362A	Environmental Sciences: Energy	Undergrad	43
UOIT	NUCL 5070G	Environmental Modelling	Grad	200
UOIT	ENGR 3260U	Intro to Energy Systems	Undergrad	170

UOIT	ENGR 3570U	Environmental Effects of Radiation	Undergrad	163
Waterloo	ME 571	Air Pollution	Undergrad	76
Discipline Fuel				
University	Course #	Description	Level	ID1
RMC	CC567	Nuclear Fuel Management	Grad	56
RMC	CC533	Nuclear Fuels Engineering	Grad	52
UOIT	NUCL 5220G	Fuel Management in Nuclear Reactors	Grad	130
UOIT	ENGR 4680U	Nuclear Materials	Grad	118

Discipline Fuel Cycle

University	Course #	Description	Level	ID1
UOIT	ENGR 4810U	Nuclear Fuel Cycles	Undergrad	126

Discipline Health Physics

University	Course #	Description	Level	ID1
Carleton	PHYS 5208	Radiation Protection	Grad	63
Ecole Polytechnique	ENE6111	Analyse par activation et radio-isotopes	Diploma	98
Ecole Polytechnique	ENE6105	Effets des rayonnements et mat. nucléaires	Diploma	94
McMaster	Med Phys 776	Principles of Radiation Protection	Grad	12
RMC	CC511	Health Physics and Radiation Protection	Grad	46
Saskatchewan	PHYS 857.3-	Radiological Physics	Undergrad	31
Saskatchewan	PHYS 352.3-	Concepts of Radiation Physics	Undergrad	30
Toronto	CHL 5907H	Radiological Health	Grad	41

UNENE / McMaster	UN0805	Introduction to Operational Health Physics	Grad	25
UOIT	NUCL 5430G	Advanced Dosimetry	Grad	214
UOIT	NUCL 5090G	Occupational Health and Safety.	Grad	202
UOIT	NUCL 5440G	Advanced Radiation Biophysics and Microdosimetry	Grad	134
UOIT	RADI 2110U	Health Physics Laboratory	Undergrad	191
UOIT	RADI 3530U	Introduction to Radiological and Health	Undergrad	192
UOIT	RADI 2100U	Radiological and Health Physics	Undergrad	190
UOIT	ENGR 3860U	Introduction to Nuclear Reactor Technology	Undergrad	179
UOIT	ENGR 2950U	Radiation Protection	Undergrad	160
UOIT	RADI 4220U	Radiation Biophysics and Dosimetry	Undergrad	121
UOIT	RADI 4440U	Radioisotopes and Radiation Machines	Undergrad	123
UOIT	RADI 4550U	Radiation Detection and Measurement	Undergrad	110

Discipline **Materials**

University	Course #	Description	Level	ID1
RMC	CC595	Nuclear Materials	Grad	59
UNENE / Queen's	UN0901	Nuclear Materials	Grad	27
UOIT	NUCL 5080G	Advanced .. Environmental Degradation of Materials	Grad	201
UOIT	RADI 4430U	Industrial Applications of Radiation Techniques	Undergrad	109

Discipline **Mechanical**

University	Course #	Description	Level	ID1
New Brunswick	ME 5193	An Introduction to Flow-Induced Vibrations	Grad	84
Toronto	MIE408H1 S	Nuclear engineering II: thermal and mechanical	Undergrad	37

Waterloo	CIVE 701	Topics in Mechanics	Grad	72
Discipline	Modelling			
University	Course #	Description	Level	ID1
McMaster	ENG PHY 718	Reactor Heat Transport System Simulation/Analysis	Grad	8
RMC	CC501	Chemical And Nuclear Engineering Computations	Grad	44
UOIT	NUCL 5030G	Transport Theory	Grad	197
UOIT	NUCL 5040G	Monte Carlo Methods	Grad	198
UOIT	NUCL 5020G	Mathematical Methods in Nuclear Applications	Grad	124
Waterloo	SYDE 372	Introduction to Pattern Recognition	Undergrad	75

Discipline Physics

University	Course #	Description	Level	ID1
Carleton	PHYS 4608	Nuclear Physics	Undergrad	66
Ecole Polytechnique	ENE6103	Calcul neutronique des réacteurs	Diploma	93
Ecole Polytechnique	ENE6101	Physique statique des réacteurs	Diploma	91
Ecole Polytechnique	ENE6102	Cinétique des réacteurs nucléaires	Diploma	92
McMaster	4U04	Nuclear Laboratories	Undergrad	11
McMaster	4D03/6D03	Nuclear Reactor Systems Analysis	Undergrad	1
New Brunswick	ME 6274	Mechanics of Nuclear Radiation	Grad	87
RMC	CC593	Advanced Nuclear Reactor Physics	Grad	58
RMC	CC527	Nuclear Reactor Kinetics and Dynamics	Grad	51
RMC	CC515	Nuclear Detection and Measurement	Grad	47
RMC	CC517	Shielding for Nuclear Activities	Grad	48

RMC	CCE351A	Nuclear Science	Undergrad	42
Simon Fraser	PHYS 385-3	PHYS 385-3	Undergrad	187
Simon Fraser	NUSC 444-3	Special Topics in Nuclear Science	Undergrad	185
Simon Fraser	NUSC 485-3	NUSC 485-3 Particle Physics	Undergrad	186
Simon Fraser	NUSC 344-3	Nucleosynthesis and Distribution of the Elements	Undergrad	182
Simon Fraser	NUSC 342-3	Introduction to Nuclear Science	Undergrad	181
Toronto	MIE407H1 F	Nuclear engineering I: reactor physics, fuel cycle	Undergrad	36
UNENE / McMaster	UN0802	Nuclear Reactor Analysis	Grad	22
UOIT	NUCL 5400G	Advanced Radiation Science	Grad	213
UOIT	NUCL 5215G	Advanced Reactor Engineering	Grad	205
UOIT	NUCL 5200G	Reactor Physics	Grad	204
UOIT	NUCL 5210G	Advanced Reactor Physics	Grad	129
UOIT	NUCL 5460G	Industrial Radiography	Grad	115
UOIT	NUCL 5060G	Nuclear Concepts for Engineers & Scientists	Grad	112
UOIT	ENGR 5180G	Advanced Nuclear Engineering	Grad	103
UOIT	ENGR 5181G	Advanced Radiation Engineering	Grad	104
UOIT	ENGR 3820U	Nuclear Reactor Kinetics	Undergrad	140
UOIT	ENGR 2500U	Introduction to Nuclear Physics	Undergrad	137
UOIT	ENGR 4670U	Shielding Design	Undergrad	125

Discipline PSA

University	Course #	Description	Level	ID1
New Brunswick	CHE 5844	Nuclear Safety and Reliability	Grad	80

UNENE / Waterloo	UN0701	Engineering Risk and Reliability	Grad	18
UOIT	NUCL 5050G	Applied Risk Analysis	Grad	199
UOIT	ENGR 4660U	Risk Analysis Methods	Undergrad	107
Waterloo	CIVE 601	Engineering Risk and Reliability	Grad	71

Discipline Public Acceptance

University	Course #	Description	Level	ID1
Toronto	GLG103	Geology in Public Issues	Undergrad	32

Discipline Safety

University	Course #	Description	Level	ID1
Ecole Polytechnique	ENE6121	Sûreté des centrales nucléaires	Diploma	100
Ecole Polytechnique	ENE6110	Laboratoire de génie nucléaire	Diploma	97
Ecole Polytechnique	ENE6109	Gestion du combustible	Diploma	96
McMaster	ENG PHY 714	Nuclear Reactor Safety Design	Grad	5
McMaster	ENG PHY 713	Nuclear Safety Analysis and Reactor Accidents	Grad	4
RMC	CC543	Atmospheric Dispersion and Micrometeorology	Grad	54
RMC	CC525	Nuclear Reactor Safety	Grad	50
UNENE / McMaster	UN0803	Nuclear Reactor Safety Design	Grad	23
UOIT	NUCL 5275G	Safety Instrumented Systems	Grad	210
UOIT	NUCL 5260G	Reactor Containment Systems.	Grad	208
UOIT	NUCL 5350G	Regulatory Affairs and Licensing Concepts	Grad	114
UOIT	ENGR 3530U	Safety and Quality Management	Undergrad	154
UOIT	ENGR 4370U	Nuclear Plant Safety	Undergrad	155

UOIT	ENGR 4520U	Nuclear Plant Safety Design	Undergrad	116
------	------------	-----------------------------	-----------	-----

Discipline **Systems Engineering**

University	Course #	Description	Level	ID1
Ecole Polytechnique	ENE8203	Technologies nucléaires	Diploma	101
Ecole Polytechnique	ENE8210	Efficacité des sources d'énergie	Grad	88
McMaster	ENG PHY 3D03	PRINCIPLES OF NUCLEAR ENGINEERING	Undergrad	9
McMaster	4NE3	ADVANCED NUCLEAR ENGINEERING	Undergrad	10
McMaster	4P03/6P03	Nuclear Power Plant Systems and Operation	Undergrad	2
New Brunswick	ME 5373	Nuclear Reactor Engineering	Grad	85
New Brunswick	CHE 5877	Advanced Nuclear Systems	Grad	82
New Brunswick	CHE 5834	Nuclear Engineering	Grad	79
RMC	CC523	Nuclear Reactor Engineering	Grad	49
Toronto	CHE568H1	Nuclear engineering	Grad	35
Toronto	PSY378H1	Engineering Psychology	Undergrad	33
UNENE / McMaster	UN0801	Nuclear Power Plant Systems and Operation	Grad	21
UNENE / McMaster	UN0800	Industrial Research Project	Grad	20
UNENE / Queen's	UN0900	Industrial Research Project	Grad	26
UNENE / Toronto	UN1000	Industrial Research Project	Grad	28
UNENE / Waterloo	UN0700	Industrial Research Project	Grad	17
UNENE / Western Ontario	UN0603	Project Management for Nuclear Engineers	Grad	16
UNENE / Western Ontario	UN0600	Industrial Research Project	Grad	13
UOIT	NUCL 5100G	Nuclear Plant Operation	Grad	203

UOIT	ENGR 5985G	Advanced Power Plant Technologies	Grad	195
UOIT	NUCL 5010G	Project Management for Nuclear Engineers	Grad	196
UOIT	ENGR 5980G	Advances in Nuclear Power Plant Systems	Grad	194
UOIT	NUCL 5290G	Advances in Nuclear Power Plant Systems	Grad	113
UOIT	ENGR 5100G	Advanced Energy Systems	Grad	102
UOIT	ENGR 4440U	Advanced Power Generation	Undergrad	189
UOIT	ENGR 4110U	Power Systems	Undergrad	188
UOIT	ENGR 4460U	Nuclear Power Systems	Undergrad	178
UOIT	ENGR 4480U	Emerging Energy Systems	Undergrad	177
UOIT	ENGR 3540U	Nuclear Steam Supply Systems	Undergrad	144
UOIT	ENGR 4880U	Principles of Fusion Energy	Undergrad	127
UOIT	ENGR 4780U	Nuclear Reactor Design	Undergrad	120
UOIT	ENGR 4700U	Nuclear Plant Design and Simulation	Undergrad	108
UOIT	ENGR 4640U	Nuclear Plant Operation	Undergrad	106
Waterloo	ME 459	Energy Conversion	Undergrad	73
Waterloo	SCI 270	Nuclear Science	Undergrad	74
Western	4439A/B	Conventional, Renewable and Nuclear Energy	Undergrad	67
Western	4429A/B	Nuclear Engineering	Undergrad	68

Discipline Thermohydraulics

University	Course #	Description	Level	ID1
Ecole Polytechnique	ENE6107	Thermique des réacteurs nucléaires	Diploma	95
Ecole Polytechnique	ENE6002	Thermohydraulique des systèmes diphasiques	Diploma	90

McMaster	ENG PHY 716	Reactor Heat Transport System Design	Grad	7
McMaster	ENG PHY 715	Selected Topics in Nuclear Thermalhydraulics	Grad	6
New Brunswick	ME 5744	Steam Supply Systems	Grad	86
New Brunswick	CHE 5854	Nuclear Heat Removal	Grad	81
RMC	CC597	Thermal Hydraulics and Two Phased Flow	Grad	60
RMC	CC509	Nuclear Reactor Heat Transfer	Grad	45
UNENE / McMaster	UN0804	Nuclear Reactor Heat Transport System Design	Grad	24
UNENE / Waterloo	UN0702	Power Plant Thermodynamics	Grad	19
UOIT	NUCL 5240G	Heat Transfer in Nuclear Reactor Applications	Grad	207
UOIT	NUCL 5230G	Advanced Nuclear Thermalhydraulics	Grad	206
UOIT	NUCL 5250G	Power Plant Thermodynamics	Grad	131
UOIT	NUCL 5065G	Thermalhydraulic Concepts/Engineers & Scientists	Grad	128
UOIT	ENGR 3930U	Heat Transfer	Undergrad	162
UOIT	ENGR 2010U	Thermodynamic Cycles	Undergrad	159
UOIT	ENGR 3550U	Nuclear Plant Steam Utilization Systems	Undergrad	149
UOIT	ENGR 2640U	Thermodynamics and Heat Transfer	Undergrad	142
UOIT	ENGR 2860U	Fluid Mechanics	Undergrad	138

Discipline Waste

University	Course #	Description	Level	ID1
Carleton	ENVE 5203	Hazardous & Radioactive Wastes	Grad	62
RMC	CC573	Nuclear Waste Management	Grad	57
UNENE / Western Ontario	UN0602	Nuclear Fuel Waste Management	Grad	15

UOIT	NUCL 5310G	Transmutation of Nuclear Waste	Grad	212
UOIT	NUCL 5300G	Advanced Topics/Radioactive Waste Management	Grad	133
UOIT	ENGR 3560U	Radioactive Waste Management	Undergrad	147
UOIT	ENGR 4620U	Radioactive Waste Management Design	Undergrad	105