

GRADE 12U MATH REQUIREMENTS FOR 2014 ONTARIO UNIVERSITY ADMISSIONS

Primary requirements for 4-year degrees, with exceptions following								
UNIVERSITY	MATH	SCIENCE	ENGIN.	COMP SCI / IT	BUS./ COMM.	ARTS/ SOC. SCI.	ENV. STUD.	PHYS. ED./ KINES.
ALGOMA	BA: MHF + 1 Math; BSc: MHF	Bio - MHF; BSc: Psych - MHF	NA	B.Cosc: MHF + 1 Math; BSc: MHF	2 Math	None; BA: Psych - none Economics, Finance - 2 Math	NA	NA
BROCK	MHF, MCV	MHF or MCV, 2 from Bio, Physics, Earth&Sp, 1 Math, English; Health - 1 Math (MDM*); Nursing- 1 Math rec; Public Health - 11U rec	NA	MHF or MCV; Comp Sci & Math - MHF, MCV Comp & Bus - MHF + 1 Math	2 Math	None; Econ- MHF or MCV; Child & Youth, Psych - 1 Math (MDM*)	MHF or MCV, Chem, 2 from Bio, Physics, Earth&Sp, 12U Math, English	Phys Ed - 1 Math; Kines: BKin - 1 Math; Kines: BSc - MHF or MCV; Sport Mgt, Recr - None
CARLETON	MHF, MCV	BA: Bio - MHF, (MCV rec) BSc: Bio, Chem - MHF + 2 from Bio, Chem, Earth&Sp or Phys, (MCV rec); Phys - MHF, MCV; Geog - MHF or MCV; Health - MHF, (MCV rec)	MHF + 1 of MCV, Bio, Earth&Sp, (MCV rec)	CS - MHF or MCV; IT - 1 Math, (MCV rec)	Comm, Intl Bus - MHF + 1 Math, (MCV rec); Indus Design - MHF, (MCV rec)	None; Econ - MHF, (MCV rec)	Earth, Env Sci - MHF or MCV; Architecture: BAS - MHF, (MCV rec)	NA
GUELPH	MCV	Bio Sci - MHF; Phys Sci - Pharm, Chem, Phys - MCV; Agric - MHF; Child/Youth/Fam, Nutr - 1 Math	MHF, MCV	Comp Sci - MCV, (MDM rec); SoftwareEng - MCV, (MDM rec)	MHF + 1 Math; Hotel&Food, Public Mgt, Tourism Mgt - MHF	BA: None (Math rec) BAS: MHF Arts - None; Soc Sci, Geog - MHF	Lndscp-None; Envir Sci - MHF; EnvGeoSci- MCV	Kines - 1 Math (Guelph-Humber)
LAKEHEAD	MHF + 1 Math	Bio - MHF + 2 of Math, Sci; Chem - MHF + 1 of Math, Bio, Phys; Nurs - 12U; Geol - 1 Math; WaterRes, Frstry - 3 of Math, Sci, CS, Geog	MHF	MHF + 1 of Math, CS	1 Math	None; BA: Econ - 1 Math BSc: Econ - 2 Math Psych - MHF + 2 of Math, Sci	BES: Geog - none BESc: Geog, Bio - MHF; Earth Science - 1 Math; EnvMgt - 3 of Math, Sci, CS, Geog	Kines - 1 Math; Natural Science - 2 of Math, Science;
LAURENTIAN	MHF + 1 Math (MCV rec)	Bio, Chem, Phys - MHF, 2 Sci, or 1 Math + 1 Sci; Forens - MHF, (MCV rec); RadThrpy - MHF Midwf, Nurs - None	MHF + 1 of MCV, Bio, Earth&Sp, Economics	B.Co.Sc: MHF + 1 Math (MCV rec)	B.Com: Commerce & Sports Admin - 2 Math	None	EnvSci- MHF, 1 Math + 1 Science, or 2 Sciences	Kines (BPHE) - None; Kines (BSc) - MHF (MCV rec)
MCMASTER	MHF, MCV	Chem, Phys, Integ Sci, MedRad - MHF, MCV; Life, Earth - MHF or MCV + 1 of Math, Sci (MCV rec); Health, Nurs - 1 Math; Midwf- None	B.Eng: - MCV	B.A.Sc: MCV; BTech I: MCV	B.Com: 2 Math	None; B.A.Sc: - MHF or MCV; Econ, Psych - (MHF or MCV rec)	Environ & Earth Sci - MHF or MCV + 1 of MHF, MCV, Sci	Kines - MHF or MCV (MCV rec)
NIPISSING	BA: MCV + 1 Math BSc: MHF, MCV	Bio - MHF or MCV; Psych- MCV; Liber Sci - MHF or MCV; Sci & Tech - MCV + 1 Math; Nurs- (1 Math rec)	NA	MCV + 1 Math	BBA: 1 Math rec; BComm: none	None; Econ- 1 Math	EnvBio & Tech - 1 of MCV, MHF, or Phys; Env & Phys Geog - 1 Math	Phys Ed - (1 Math rec)
OCAD	NA	NA	NA	NA	NA	None	None	NA
ONT INST OF TECH	MHF + 2 of MCV, Bio, Chem, Phys (all 4 rec)	MHF + 2 of MCV, Bio, Chem, Phys (all 4 rec); Nurs, Health - 1 Math (MHF* or MCV*); Med Lab Sci - MHF or MCV	MHF, MCV	CS - MHF + 2 of MCV, Bio, Chem, Phys (all 4 rec); IT- 1 Math	1 Math	Psych (Forensic) - (1 Math rec)	Energy & Envir - MHF + 2 of MCV, Bio, Chem, Phys (all 4 rec)	Kines - 1 Math
OTTAWA	MHF, MCV	MHF, MCV; Health - 2 of MHF, MCV, Chem, Phys; Nurs - 11M or 11U or 12U; Nutr - 1 Math; Psych (BSc) - MHF + 2 of MCV, Sci (MCV rec)	MHF, MCV	MHF, MCV	MHF, MCV; Admin - None	None; Econ - MHF (MCV rec); Psych (BA) - none	None; EnvSci - MHF, MCV; Geology - MHF, MCV; Geol-Phys - MHF, MCV	Human Kinetics (BHK) - 1 Math; Human Kinetics (BSCHK) - MHF, MCV
QUEEN'S	MCV	MHF, MCV; Concurrent Ed/Sci - MHF, MCV; Nurs - 1 Math Psych - (MDM rec)	MCV + 1 of MHF, MDM, Bio, CS, Earth&Sp	MHF, MCV	MCV + 1 Math	None; Geog (BSc) - 2 of MHF, MCV, Chem, Phys; Geol (BSc) - MHF, MCV	Env Sci - MHF, MCV; Env Studies - 1 Math; Econ - MHF, MCV	Phys Ed - None; Kines - MHF + 2 of MCV, Chem, Phys

KEY TO SHORT FORMS: MHF= Advanced Functions; MCV= Calculus & Vectors; MDM= Math of Data Mgt; * = Preferred; None= No Math required; NA= Programme not available; rec= Highly Recommended; 1 Math= 1 of MHF, MCV, MDM required; 2 Math = 2 of MHF, MCV, MDM required; MHF + 1 Math= MHF + 1 of MCV or MDM required; (MHF, MCV rec)= MHF and MCV both recommended; 1 Math rec = 1 of MHF, MCV, MDM recommended; MHF (2 Math rec)= MHF required, MCV or MDM recommended; 11M = MCF3M; 11U= MCR3U; 12U = 1 of MHF, MCV, MDM

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UNIVERSITY	MATH	SCIENCE	ENGIN.	COMP. SCI.	BUS./ COMM.	ARTS/ SOC. SCI.	ENV. STUD.	PHYS. ED./ KINES.
RMC	MHF or MCV + 2 of MHF, MCV (not already taken), Bio, Chem, Phys	MHF or MCV + 2 of MHF, MCV (not already taken), Bio, Chem, Phys	MHF, MCV	MHF or MCV + 2 of MHF, MCV (not already taken), Bio, Chem, Phys	11U or MHF (MCV rec)	11U or MHF (MCV rec)	NA	NA
RYERSON	MHF + MCV or MDM	MHF; Nurs - 11U or 11M or 12U; Occ & Pub Health - 1 Math rec; Nutr, Midwf - None	MHF, MCV; Architecture - MHF or MCV	MHF + MCV or MDM; Graphic Comm Mgt - 11U or 11M or 12U	Acct & Fin - MHF, MCV; Bus Mgt - 1 Math; Pub Admin - None; Bus Tech, Mgt, Hosp&Tour, Retail - 1 Math (MHF, MCV rec)	None; Int Dsgn, Fash Comm - 11U or 11M or 12U; Early Chldhd -11U or 11M or 12U or 12M Math or Sci	Urb&Reg Plan (12U Math and/or Soc Sci and/or Econ and/or Can & World Stud, Sci and/or Math rec)	NA
TORONTO Mississauga Campus	MHF, MCV (MDM rec)	Chem-Phys Sci, Foren Sci - MHF (MCV rec); Life Sci, Chem, Earth Sci, Envir Sci, Paleo, Geog - MHF	NA	MHF, MCV (MDM rec); GeogInfoSys - 1 Math; Geocomp Sci - (MHF, MCV, MDM rec)	Comm - MHF, MCV; Mgt - 1 Math	None; IntlAff, Econ - MHF + 1 Math; Logic - MHF, MCV; Psych - MHF; Geog - none	Envir Science - MHF; Envir Mgt - (MHF rec)	NA
TORONTO St. George Campus	MCV	MCV Econ - MCV; Psych - MCV	MHF, MCV	MCV	MCV Public Policy - MCV	None; Econ - MCV IntlRel, Cogn Sci (1 Math rec)	None; Env Econ, Env Science - MCV	MHF or MCV
TORONTO Scarborough Campus	MHF, MCV	MHF, MCV; Neuro - MHF, MCV; Paramed - MHF	NA	MHF, MCV	Mgt - MHF, MCV	None	EnvSci - MHF, MCV	NA
TRENT	MHF or MCV	12U Math rec; Forens Sci, Phys, ChemPhys - MHF or MCV; Nurs - 1 Math	NA	MHF or MCV	(MHF or MCV rec)	None	(1 Math rec)	Kines - 1 Math
WATERLOO	MHF, MCV (Euclid rec)	MHF, MCV + 2 of MDM, Bio, Chem, Earth&Sp, Phys; Health Studies, PreHealth - (MHF rec); IntlDevelop - 1 Math or Sci	Engin, Architecture - MHF, MCV	MHF, MCV (Euclid rec and Canadian Computing Competition rec)	Acct - MHF, MCV (MDM rec); GlobBus & DigArts - (MDM rec)	None; Geog - 1 Math; Soc, Soc Devel, Anthr, Psych, PolSci, - (MDM rec); Econ - (MDM, MCV rec);	1 Math rec; Geog & Aviat, Geomatics, - 1 Math (2 Math rec); Know/Integr - 1 Math	Recr - None; Kines - MHF
WESTERN ONTARIO	MCV + 2 of Math, Sci, CS	MCV + 2 of Math, Sci, CS; Health Sci - 1 Math; Nurs, Foods & Nutri - 11M or 1U; Med Sci - MCV	MHF, MCV	MCV + 2 of MHF, Sci;	2 Math (MCV*); Mgt, Comm Aviat Mgt - 2 Math; Music Adm - 1 Math	None; Econ - MHF, MCV; Psych - (any 12U Math rec); Soc, Geog (Math rec)	None; Env Sci - MCV + 2 of Math, Sci, CS	Kines - BA (1 Math rec) Kines - BSc (MCV rec)
WILFRID LAURIER	MHF, MCV	MHF; Phys - MHF + 2 of MCV, Chem, Phys; Bio & Math, Chem & Math - MHF, MCV; BSc: Pysch - MHF; Health Sci - MHF	NA	BSc: MHF + 1 of MCV, Chem or Phys; BA: MHF; Bus Tech - 1 Math	MHF + MCV or MDM; Bus & Math and Bus & Comp - MHF, MCV	None; Econ - MHF + MCV or MDM; Appl Econ - MHF; BA: Psych - 1U or 11M or 12U	EnvSci - MHF	Kines and Phys Ed - BSc: MHF; BA: 11U or 11M or 12U
WINDSOR	MHF, MCV	MHF (MCV rec); Nurs - (1 Math rec)	MHF (MCV rec)	MHF (MCV rec)	1 Math; Bus & Econ and Bus & Comp - MHF (MCV rec)	None; Econ (Hon) - MHF, (MCV, MDM rec); Forens - MHF (MCV rec)	None; EnvSci - MHF (MCV rec); Vis Art & Built Env - MHF, (MCV rec)	Kines - None
YORK	MHF (MCV rec)	Bio, BioMed, BioTech, EnviroBio - MHF; Biochem, Chem, Phys & Astron, Undec - MHF, MCV; BioPhys - MCV; Health - (1 Math rec); Psych, Nurs - 1 Math	MHF, MCV	MHF + 1 Math (MCV*); Digital Media - 1 Math Sci & Tech - 1 Math (MHF*); Info Tech - 1 Math	Bus Admin - MHF + MCV or MDM; Mgt - MHF; Pub Admin, HumResMgt - 1 Math	None; Econ - MHF (MCV rec);	None; EnvSci - MHF, MCV; EnvStud - none; Geog - 1 Math (MHF*)	Kines(BA) - 1 Math; Kines(BSc) - 1 Math

NOTES: Students should check calendars for up-to-date requirements and Websites may provide updates. Info magazine may not have full details. MHF should be taken as a first math credit for most programmes. MCV is required or recommended for most Math, Comp Sci, and Engineering programmes. MDM is accepted in many programmes, especially in Business and Social Sciences, but may fall outside the requirements in others, though still accepted as a credit. Math, Science and Computer Science programmes listed are through the BMath, BSc or BCS (not BA) streams. Three-year degree programs may have fewer requirements.
Special note regarding MCV 4U: Many universities indicate MCV as an admission requirement without listing MHF as a requirement. They have indicated that MHF must be successfully completed, but does not need to be included in the "best 6" average, whereas marks from MCV will be included.