

GRADE 12U MATH REQUIREMENTS FOR 2016 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 12 U/M Math; BSc: MHF	Bio - MHF; BSc: Psych - MHF; BA: Psych - none	NA	B.Cosc: MHF + 1 Math; BSc: MHF	2 12U/M Math	None; Fin & Econ - 2 12U/M Math	NA	NA
BROCK	MHF, MCV	MHF or MCV; Earth Sci - MHF or MCV; Health - (11U rec); Nursing- (1 Math rec); Public Health - (11U rec)	NA	MHF or MCV; Comp Sci & Math (Coop) - MHF or MCV; Comp & Bus - MHF + 1 Math	2 Math	None; Econ - MHF or MCV; Child & Youth, Psych - 1 Math (MDM*); Conc Ed: BA/BEEd - 1 Math	MHF or MCV, Chem, 2 from Bio, Phys, Earth&Sp, 12U Math; Phys Geog - MHF or MCV	Phys Ed - 1 Math; Kines: BKin - 1 Math (MHF rec); Kines: BSc - MHF or MCV; Sport Mgt - 1 Math; 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; BCS: Biomed Computing stream - 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) Applied Econ - MHF, (MCV rec)	Earth, Env Sci - MHF or MCV; Architecture: BAS - MHF, (MCV rec)	NA
GUELPH	MHF, MCV	Bio Sci, Bio-Med - MHF; Phys Sci, Bio & Pharm Chem, Chem, Phys, NanoSci - MCV; Agric - MHF; Child/Youth/Fam, Adult Devel, Nutr - 1 Math	MHF, MCV	Comp Sci - MCV, (MDM rec); SoftwareEng-MCV, (MDM rec)	Acctng, Food&Agr, Mgmt - MHF + 1 Math; Hotel&Food, Pub Mgt, Tourism Mgt - MHF	BA: None (Math rec); Econ, Food, Agric. Res Econ - (MHF rec); BAS: MHF; Geog - MHF	Lndscp Arch - None; Envir Sci - MHF; EnvGeoSci-MCV	Kines - 1 Math (Guelph - Humber)
LAKEHEAD	MHF + 1 Math	Anthro, Bio, MolecBio, Geog, Phys - MHF + 2 of Math, Sci; Chem - MHF, Chem, + 1 of Math, Bio, Phys; Nurs - 1 Math; Geol - 1 Math; Earth Science, Natural Science - 2 Math or 2 Science or 1 of each	MHF	MHF + 1 of Math, CS	1 Math	None; BSc, HBSc: Econ, Geol - 1 Math Psych - MHF + 2 of Math, Sci; Econ - 2 Math; Resour&Envir - 3 of Math/Sci	HBES: Geog - none; HBESc: Geog - MHF; Env Mgt or Frstry, WaterRes - 3 of Math, Sci, CS, Geog	Kines - 1 Math
LAURENTIAN	MHF + 1 Math (MCV rec)	Bio, Chem, BioChem, Phys, NeuroSci, Biomed Phys - MHF, 2 Sci, or 1 Math + 1 Sci; Forens - MHF, (MCV rec); Rad Thrpy - MHF; Nurs - 1 Math; Midwf - None;	MHF + 1 of MCV, Bio, Earth&Sp, Economics	BA(gen), B.Co.Sc: MHF + 1 Math (MCV rec)	B.Com, Bus Adm: MHF + 1 Math; Sports Admin - 2 Math	None; Psych - none Econ - none	EarthSci, EnvGeoSc, EnvSci, Arch - MHF, 2 Sci or 1 Math + 1 Science	Kines (BSc, spec) - MHF (MCV rec)
MCMASTER	MHF, MCV	Life Sci 1 - MHF or MCV or 1 of MHF, MCV, Chem, Phys (MCV rec); Chem, Phys, Integ Sci, Med Rad - MHF, MCV; Health, Nurs - 1 Math; Midwf - None	B.Eng: MCV	B.A.Sc: MCV; BTech I: MCV	B.Com., Business 1: 2 Math	None; B.A.Sc: - MHF or MCV; Econ, Psych - (MHF or MCV rec)	Environ & EarthSci - MHF or MCV + 1 of MHF, MCV, Sci (MCV rec)	Kines - MHF or MCV (MCV rec)
NIPISSING	BA: MCV + 1 Math BSc: MHF, MCV	Bio - MHF or MCV; B.Sc. Psych - MCV; Liber Sci - MHF or MCV; Nurs- (1 Math rec)	NA	MCV + 1 Math	BBA: (1 Math rec); BA or BSc + BCom: (Prereq for major of BA or Bsc)	None; Econ - 1 Math; B.A. Psych - none	EnvBio & Tech - 1 of MCV, MHF, Phys; Env & Phys Geog - 1 Math	(BPHE) Phys Ed - (1 Math rec)
OCAD	NA	NA	NA	NA	NA	None	None	NA
UNIVERSITY OF 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)	N/A	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	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 Geol (BSc) - MHF, MCV	MCV + 1 of MHF, MDM, Bio, CS, Earth&Sp	MHF, MCV	MCV + 1 Math	None; Geog (BSc) - 2 of MHF, MCV, Chem, Phys;	Env Studies - 1 Math; Econ, Geog (BA) -none	Phys Ed - None; Kines - MHF + 2 of MCV, Chem, Phys

KEY TO SHORT FORMS:

MHF = Advanced Functions; MCV = Calculus & Vectors; MDM = Mathematics of Data Management; * = Preferred; None= No Math required; NA = Program 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

Primary requirements for 4-year degrees, with exceptions following

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 yet taken), Bio, Chem, Phys	MHF or MCV + 2 of MHF, MCV (not yet taken), Bio, Chem, Phys	MHF, MCV	MHF or MCV + 2 of MHF, MCV (not yet taken), Bio, Chem, Phys	11M, 11U or MHF (MCV rec)	11M, 11U or MHF (MCV rec)	NA	NA
RYERSON	MHF + MCV or MDM	MHF; Nurs - 11U or 11M or 12U; Occ & Pub Health - (12U courses Math and Physics rec); Nutr, Midwf - None	MHF, MCV; Archit Sci - 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, Early Childhd - 11U or 11M or 12U Math or Sci; Early Childhd - 11U or 11M or 12U Math/Sci or 12M Sci	Urb&Reg Plan (12U Math courses rec)	NA
TORONTO Mississauga Campus	MHF, MCV (MDM rec)	Life Sci, Bio, Chem, Earth Sci, Paleo - MHF; Astron, BioChem, BioMed Phys, Foren Sci, Geol - MHF (MCV rec)	NA	MHF, MCV (MDM rec); Geocomp Sci - MHF, MCV GeogInfSys - (1 Math rec)	Comm - MHF, MCV; Mgt - 1 Math	None; Econ - MHF; Psych (BSc) - MHF; Geog (BSc) - (1 Math rec)	Envir Sci, Envir Mgt, Int Affairs - MHF	NA
TORONTO St. George Campus	MHF, MCV	Life Sciences (BSc) - Bio, Chem, Phys, Nanotech - MCV; Geology, Psych - MCV	MHF, MCV	MCV	MCV	None; Econ, Env Econ - MCV; Empl Rel, Intl Rel, Cogn Sci (1 Math rec); Public Policy - MCV	None; Env Science - MCV	MHF or MCV
TORONTO Scarborough Campus	MHF, MCV	Bio, Phys, Chem - MHF, MCV; Neuro - MHF, MCV; Paramed - MHF	NA	MHF, MCV	Mgt (BBA) - MHF, MCV	None; Psych - none	EnvSci - MHF, MCV	NA
TRENT	MHF or MCV	Forens Sci, Phys, ChemPhys - MHF or MCV; Nurs - 1 Math	NA	Computing Systems + Physics - MHF or MCV	(MHF or MCV rec)	(1 Math rec)	(1 Math rec)	Kines - 1 Math
WATERLOO	MHF, MCV (Euclid rec)	MHF, MCV + 2 of MDM, Bio, Chem, Earth&Sp, Phys; Health Studies - (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); Glob Bus & DigArts - (MDM rec)	Geog&Aviat, Geog&Env, Geomatics, - 1 Math (2 Math rec); Soc, SocDevlp, Anthr, Psych, PolSci - (MDM rec); Econ - (MDM, MCV rec);	EnvirSci, Biotech CPA - MHF, MCV + 2 of MDM, Bio, Chem, Earth&Sp, Phys; Knowledge Integration - 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 - 11M or 11U or 12U; Foods & Nutri - 11M or 11U; 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, Soc, Geog (any Math rec)	None; Env Sci - MCV + 2 of Math, Sci, CS	Kines - BA (1 Math rec) Kines - BSc (MHF or MCV rec)
WILFRID LAURIER	MHF, MCV	MHF; Phys - MHF + 2 of MCV, Chem, Phys; Bio, Chem - MHF or English or Chem + MCV; BSc: Pysch - MHF; Health Sci - MHF (MCV rec)	NA	BCS: MHF + 1 of MCV, Chem or Phys; BSc - MHF+MCV, Bus Tech - MHF or MCV	MHF + MCV or MDM; Bus & Math and Bus & Comp - MHF, MCV	None; Econ - MHF + MCV or MDM; Appl Econ - MHF; BA: Psych - 11M or 11U or 12U	Env Studies - none	Kines: BKin: 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	None; Econ (Hon) - MHF, (MCV, MDM rec); Forens - MHF (MCV rec)	None; EnvSci, Env St - MHF (MCV rec); Vis Art & Built Env - MHF, (MCV rec)	Kines - None
YORK	MHF (MCV rec)	Bio, BioMed, BioTech, EnviroBio - MHF; Biochem, BioPhys, Chem, Phys & Astron, Undec - MHF, 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 BA- 1 Math BAS - MHF	Bus Admin - MHF + MCV or MDM (MCV*); Admin Stud, Dis&Emerg 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. Websites may provide updates. Info magazine may not have full details. MHF should be taken as a first math credit for most programs. MCV is required or recommended for most Math, Comp Sci, and Engineering programs. MDM is accepted in many programs, especially in Business and Social Sciences, but may fall outside the requirements in others, though still accepted as a credit. Most Math, Science and Computer Science programs listed are through the BMath, BSc or BCS (not BA) streams. Three-year degree programs may have fewer requirements.

MCV4U: 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.

SOURCES:
 eInfo
<http://www.electronicinfo.ca/>
 University Websites
<http://www.ontario.ca/education-and-training/ontario-universities>

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 (January 23, 2016)