

Master Oncology - List of Optional Courses (2020-2022)

Optional course	University	Course Coordinator	Course Code
Academic english: remedial writing for master students	Vrije Universiteit	drs. I.M.W. 't Hart MPhil	L_ETMAALG001
Advanced machine learning	Vrije Universiteit	prof. dr. S. Bhulai	XM_0010
Advanced Molecular Immunology and Cell Biology	Vrije Universiteit	drs. K. Brouwer	AM_470656
Advanced neurobiology i/ii	Peking University	prof. Yan Zhang	-
Algorithms in sequence analysis	Vrije Universiteit	prof. dr. J. Heringa	X_405050
Animal Experimentation - Article 9 course	Universiteit van Amsterdam	Willeke Jong	M_FANIMAL10
Applied Data Science with Python Specialization	University of Michigan		MOOC
Beyond central dogma: epigenetics, non-coding RNA, protein post-translational modification and human disease	University of Zürich		BIO 243
Bioethics, Technology and Law	Vrije Universiteit	prof. dr. mr. B.C. van Beers	R_BioTL
Bioinformatics of Molecular Sequence Variations	University of Zürich	Michael Baudis	BIO 392
Bioinformatics specialization	Online Education Platform (Coursera)		https://www.coursera.org/specializations/bioinformatics
Business Management in Health and Life sciences	Vrije Universiteit	drs. ing. E.M. Janse	AM_470584
Business, Innovation and Value Creation in the Life Science Industry	Vrije Universiteit	drs. P. van Hoorn	X_432723
Cancer epigenetics	University of Zürich		BIO 255
Cancer Stem/Propagating cells and their microenvironment	University of Zürich		BIO 230
Caput molecular biotechnology	Vrije Universiteit	dr. S. Luirink	AM_470604
Caput Protein Structure as Molecular Basis of Disease	Vrije Universiteit	dr. D. Bald	AM_470120
Caput rna biology	Vrije Universiteit		AM_1208
Caput structural biology	Vrije Universiteit	dr. ir. Y.J.M. Bollen	AM_470607
Cardiac development	Vrije Universiteit	Prof. dr. Roelof-Jan Oostra	M_CCARDE18
Cell cycle and cell proliferation	University of Zürich		BIO 332
Cell structures and functions	Vrije Universiteit	dr. S. Luirink	AM_470615
Clinical cell biology	Universiteit van Amsterdam	dr. E.A.J. Reits	5234CLCB6Y
Clinical Development and Clinical Trials	Vrije Universiteit	drs. ing. E.M. Janse	AM_1180
Clinical immunology	Vrije Universiteit	drs. K. Brouwer	AM_470655
Clinical neurosciences	Vrije Universiteit	C. Vriend	AM_1005
Co-challenge: Life's professional challenges	Utrecht University	M.C. Gerbrands	BMB503717
Communication, Organization and Management	Vrij Universiteit Amsterdam	dr. E. Muniz Pereira Urias	AM_470572
Concepts in Chemical Biology	Universiteit van Amsterdam	prof. dr. T.N. Grossmann	XM_0080

Containment Strategies of Infectious Diseases in Global Context	Vrije Universiteit	D.R. Essink	AM_470127
Coursera r programming	Vrije Universiteit	Coursera	000
Cursus proefdierkunde	Universiteit Utrecht	T.P. Rooymans	
Data Analysis for Life Sciences	Harvard	Rafael Irizarry	Online edX
Data Science and R (R basics/ Data visualisation)	Vrije Universiteit	EdX	000
Data science specialization	Johns Hopkins	Jeff Leek, PhD	https://www.coursera.org/specializations/jhu-data-science#courses
Developmental biology	Vrije Universiteit	prof. dr. R.E. Koes	AM_470613
Developmental neurobiology of the vertebrate brain	Vrije Universiteit	dr. R.F.G. Toonen	AM_470713
DNA metabolism and cancer	University of Zürich	Massimo Lopes	BIO 257
Drug-induced stress and cellular responses	Vrije Universiteit	J.N.M. Commandeur	X_432536
Epigenetic Regulation in health and Disease	LUMC/MGC	Madeleine Nivard	http://www.medgencentre.com/MGC-courses/
Epigenetics	Vrije Universiteit	J.M. Kooter	AM470606
Ethics in Global Health	Vrije Universiteit		AM_1047
Ethics of Medical Research	Vrije Universiteit	R.C. Hastings	W_MASP_PBH2
Exercise and clinical immunology	Vrije Universiteit	dr. R.T. Jaspers	B_EXCLINIM
Experimental and Clinical Neuroendocrinology	Vrije Universiteit Amsterdam	prof. dr. M. den Heijer	AM_470700
Extreme biology	Vrije Universiteit	dr. ir. A.H. de Boer	AM_470509
Finance for growth in health and life sciences	Vrije Universiteit	drs. ing. E.M. Janse	AM_1193
Foundations of Global Health	Online (Coursera-by Johns Hopkins Uni.)		https://www.coursera.org/specializations/global-health
Fundamentals of bioinformatics	Vrije Universiteit	dr. ir. K.A. Feenstra	X_405052
Gene regulation	University of Zürich		BIO 241
Genetic and Epigenetic Control of Plant Development	University of Zürich		BIO 285
Genetic Models for Animal Breeding	Wageningen	prof.dr.ir. J (Hans) Komen	https://www.edx.org/course/genetic-models-for-animal-breeding-2
Genome Instability and Molecular Cancer Research	University of Zürich	Massimo Lopes	BIO 246
Genomes and Gene Expression	Vrije Universiteit	J.M. Kooter	AM_470614
Genomics	Universiteit van Amsterdam	dr. M.J. Jonker	5234GENO6Y
Genomics data analysis	Harvard	Rafael Irizarry	Online edX
Health, Globalisation and Human Rights	Vrije Universiteit		AM_470818
Introduction to Bioinformatics	University of Zürich		BIO 390
Introduction to Biomedical Imaging	University of Queensland, Australia		-
Introduction to R for Life Sciences	Utrecht University	Basten Snoek	BMB502219
Laboratory animal science	Universiteit Leiden	Prof. dr. ir. J.B. Prins	312200400Y

Laboratory animal science	Radboud Nijmegen	Merel Ritskes-Hoitinga	BM024D
Life cell imaging	Vrije Universiteit	dr. R.J.P. Musters	M_CLIFECE09
Machine learning	Stanford University (on Coursera)		Unknown
Macroscopic, Microscopic and Pathological Anatomy of the Mouse	Oncology Graduate School	Dr. J.E. Seppen, Dr. E.A.J. Reits	M_OMACROS03
Medical neuroscience	Duke University	Leonard E. White, Ph.D.	--
Medicinal Chemistry - The Molecular Basis of Drug Discovery	Davidson College	Erland Stevens	Davidson D001x
Modern genetics and genomics	University of Zürich		BIO 323
Molecular and Computational Toxicology	Vrije Universiteit	Daan Geerke	
Molecular Evolution and Phylogenetics	University of Zürich		BIO 222
Molecular infection biology	Vrije Universiteit		AM_470657
Molecules of Life (MOL)	University of Leiden	Jeroen Codee, Dima Filippov	4423MOFL6 (MOL)
Moral Reasoning in Health Care	Vrije Universiteit	drs. S. Metselaar	W_MASP_PBH4
Nanomedicine	Utrecht University	Dr. R.J. (Robbert Jan) Kok	FA-MA218
Negotiation	Vrije Universiteit	dr. K. Fousiani	P_MNEGOTI
Nutrition and Cancer	Wageningen	Prof. Ellen Kampman	https://www.edx.org/course/nutrition-and-cancer
Nutrition in Health and Disease	Vrije Universiteit	dr. E. Leistra	AM_470841
Online edx course Nutrition and Cancer	Wageningen	Ellen Kampman	NUTR105x
Palliative care: it's not just hospice anymore	Online (Coursera - by the University of Colorado)		https://www.coursera.org/specializations/palliative-care
Personalised Health and Medicine	Vrije Universiteit	prof. dr. A.H.M. Willemsen	P_MPHMED
Python for Everybody Specialization	Online Course (Coursera by University of Michigan)		https://www.coursera.org/specializations/python
Policy, Management and Organisation in International Public Health	Vrije Universiteit	M.O. Kok	AM_470819
Principles in Genetics and Developmental Biology	University of Vienna		301557
Principles of Molecular Virology	University of Vienna		301347
Principles of Pharmaceutical Sciences / Pharmacochimistry	Vrije Universiteit	prof. dr. I.J.P. de Esch	X_435675
Proefdierkunde cursus: Artikel 9 op de Wet van de proefdieren	Universiteit van Amsterdam	Willemke Jong	PDK_AMC
Propedeutics: Experimentelle biomedizinische Studien in Tieren	Medical University of Vienna		502.466
Protein science	Vrije Universiteit	D. Bald	AM_470145
Proteomics in Biomedical Research	Vrije Universiteit	Prof.dr.Connie Jimenez	M_CPROTBI09
Proteomics/metabolomics	Universiteit van Amsterdam	dr. G. Kramer	5234PROT6Y
Quantitative life sciences	University of Zürich		BIO 445
Radiation protection course level 5b	Vrije Universiteit	G.W.M. Visser BSc	M_ORADPRO04

Research methods for need assessments	Vrije Universiteit	D.R. Essink	AM_470817
Science and Communication	Vrije Universiteit	dr. C.A.C.M. Pittens MSc	AM_470587
Science and Society in Historical Perspective	Vrije Universiteit	dr. D.J. Beckers	X_400424
Science journalism	Vrije Universiteit	dr. J.F.H. Kupper	AM_471014
Signal transduction in health and disease	Vrije Universiteit	prof. dr. M.J. Smit	X_432535
Signalling in the Immune System	University of Vienna		301588
Single Cell Technologies in Life Science	Vrije Universiteit	drs. K. Brouwer	AM_1224
Single-cell omics in Immunotherapy	Vrije Universiteit	drs. K. Brouwer	AM_1257
Societal entrepreneurship in health and life sciences	Vrije Universiteit	drs. ing. E.M. Janse	AM_470575
Statistical Analysis with R for Public Health Specialization	Imperial College London	Alex Bottle	https://www.coursera.org/specializations/statistical-analysis-r-public-health
Statistics with R	Vrije Universiteit	dr. D Molenaar	X_418156
Targeting cancer cell motility and invasiveness	University of Zürich		BIO 319
The Ethics of Biomedicine	Karolinska Institutet		-
The Human Microbiome in Health and Disease	Vrije Universiteit	Prof. R. Kort	AM_1021
The immune system: new developments in research	Osaka University		-
The Science and Business of Biotechnology	Massachusetts Institute of Technology (MIT)	Harvey F. Lodish	MITx:15.480x
Thoracic oncology	University of Michigan	Dr. Leslie Eisenbud Quint	--
Transcriptomics	Universiteit van Amsterdam	dr. M.J. Jonker	5234TRAN6Y
Translational cancer research: new technologies, mouse models and clinical approaches	University of Zürich		BIO 242
Translational immunology	Vrije Universiteit	K. Brouwer	AB_1031
Women's cancers	Radboud University	dr. M.J.M. Broeders	MED-BMS71