

Additional file 1. All relevant and possibly relevant courses found in this study.

MOOC provider	Link	Institution	Median duration, wks	Median workload, h/wk	Relevant for	Possibly relevant for
Coursera	www.coursera.org/course/drugsandbrain	California Institute of Technology	7	5	Medical expert	–
EdX	www.edx.org/course/caltechx/caltechx-ec1011x-principles-economics-1286	California Institute of Technology	10	9	–	Manager
Coursera	www.coursera.org/course/lead-ei	Case Western Reserve University	8	3,5	Manager	Collaborator
Coursera	www.coursera.org/course/blendedlearning	Clayton Christensen Institute	6	3	–	Scholar
Coursera	www.coursera.org/course/virology	Columbia University	11	3,5	Medical expert	–
Coursera	www.coursera.org/course/virology2	Columbia University	12	3,5	Medical expert	–
Coursera	www.coursera.org/course/leadership21st	Copenhagen Business School	10	5	Manager	Communicator, collaborator
EdX	www.edx.org/course/cornellx/cornellx-info2040x-networks-1354	Cornell University	10	4,5	–	Communicator
EdX	www.edx.org/course/davidsonx/davidsonx-001x-medicinal-chemistry-1220	Davidson College	7	7	Scholar	–
Coursera	www.coursera.org/course/highered	Duke University	6	3	–	Scholar
Coursera	www.coursera.org/course/brainspace	Duke University	–	4,5	–	Medical expert
Coursera	www.coursera.org/course/thinkagain	Duke University	12	5,5	–	Communicator, scholar
Coursera	www.coursera.org/course/healthcareinnovation	Duke University	6	6	Scholar	–
Coursera	www.coursera.org/course/statistics	Duke University	10	7	Scholar	–
Coursera	www.coursera.org/course/composition	Duke University	12	7	Communicator	–
Coursera	www.coursera.org/course/humanphysio	Duke University	12	7	Medical expert	–
Coursera	www.coursera.org/course/behavioralecon	Duke University	8	9	–	Professional
Coursera	www.coursera.org/course/medicalneuro	Duke University	12	18	Medical expert	–
Coursera	www.coursera.org/course/pregnancychildbirth	Emory University	6	3	Health advocate	Medical expert
Coursera	www.coursera.org/course/violence	Emory University	6	3,5	Health advocate	Medical expert
Coursera	www.coursera.org/course/addictedbrain	Emory University	8	3,5	Medical expert, health advocate, scholar	–
Coursera	www.coursera.org/course/aids	Emory University	9	3,5	Medical expert, health advocate	–
EdX	www.edx.org/course/georgetownx/georgetownx-phlx101-01-introduction-811	Georgetown University	6	4	Professional	–
EdX	www.edx.org/course/georgetownx/georgetownx-medx202-01-genomic-medicine-837	Georgetown University	8	8	Medical expert	Scholar, professional
Coursera	www.coursera.org/course/gtcomp	Georgia Institute of Technology	8	6	Communicator	–
Coursera	www.coursera.org/course/healthinformatics	Georgia Institute of	10	6	–	Collaborator,

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/foe	Technology Georgia Institute of Technology	–	6	Scholar	manager, scholar
Coursera	www.coursera.org/course/psy	Georgia Institute of Technology	12	9	Medical expert	Scholar
EdX	www.edx.org/course/harvardx/harvardx-ph201x-health-society-905	Harvard University	12	3,8	Health advocate, scholar	–
EdX	www.edx.org/course/harvardx/harvardx-hsph-hms214x-fundamentals-941	Harvard University	12	5	Scholar	–
EdX	www.edx.org/course/harvardx/harvardx-ph207x-health-numbers-354	Harvard University	13	10	Scholar	–
EdX	www.edx.org/course/harvardx/harvardx-mcb80-1x-fundamentals-925	Harvard University	12	–	Medical expert, scholar	–
EdX	www.edx.org/course/harvardx/harvardx-ph278x-human-health-global-573	Harvard University	12	–	–	Health advocate
EdX	www.edx.org/course/harvardx/harvardx-gse1x-unlocking-immunity-change-940	Harvard University	–	–	–	Manager, professional
Coursera	www.coursera.org/course/bluebrain	Hebrew University of Jerusalem	9	2	–	Medical expert
Coursera	www.coursera.org/course/datan	Higher School of Economics	8	7	–	Scholar
Coursera	www.coursera.org/course/neuroec	Higher School of Economics	9	7	–	Medical expert
Coursera	www.coursera.org/course/criticalmanagement	IE Business School	6	2	–	Manager
Coursera	www.coursera.org/course/clintrials	Johns Hopkins University	6	2,5	Scholar	–
Coursera	www.coursera.org/course/pmhdepression	Johns Hopkins University	7	3	Medical expert, scholar	Health advocate
Coursera	www.coursera.org/course/tbmanagement	Johns Hopkins University	9	3	Medical expert	Scholar
Coursera	www.coursera.org/course/healthcaresafety	Johns Hopkins University	5	3,5	Collaborator, manager, health advocate	Scholar
Coursera	www.coursera.org/course/healthforall	Johns Hopkins University	5	3,5	Health advocate	–
Coursera	www.coursera.org/course/fmri	Johns Hopkins University	6	3,5	Scholar	Medical expert
Coursera	www.coursera.org/course/compdata	Johns Hopkins University	4	4	–	Scholar
Coursera	www.coursera.org/course/obesityecon	Johns Hopkins University	4	4	–	Health advocate

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/dementiacare	Johns Hopkins University	5	4	Medical expert	Communicator, collaborator, health advocate
Coursera	www.coursera.org/course/globaldiseasecontrol	Johns Hopkins University	7	4	Health advocate	–
Coursera	www.coursera.org/course/biostats2	Johns Hopkins University	7	4	Scholar	–
Coursera	www.coursera.org/course/biostats	Johns Hopkins University	7	4	Scholar	–
Coursera	www.coursera.org/course/dataanalysis	Johns Hopkins University	8	4	–	Scholar
Coursera	www.coursera.org/course/vacctrails	Johns Hopkins University	–	4	Scholar	–
Coursera	www.coursera.org/course/casebasedbiostat	Johns Hopkins University	6	5	Scholar	–
Coursera	www.coursera.org/course/foodsys	Johns Hopkins University	6	5	–	Health advocate
Coursera	www.coursera.org/course/braintargeted	Johns Hopkins University	–	5	–	Scholar
Coursera	www.coursera.org/course/commhealthworkers	Johns Hopkins University	7	6	–	Scholar
Coursera	www.coursera.org/course/communitychange	Johns Hopkins University	6	6,5	Health advocate	–
Coursera	www.coursera.org/course/statreasoning	Johns Hopkins University	8	8	Scholar	–
EdX	www.edx.org/course/kyotoux/kyotoux-001x-chemistry-life-858	Kyoto University	13	3	–	Scholar
Coursera	www.coursera.org/course/pcd	Ludwig-Maximilians-Universität München	6	3	–	Medical expert, scholar
EdX	www.edx.org/course/mitx/mitx-24-00x-introduction-philosophy-god-888	Massachusetts Institute of Technology	11	5	–	Professional
EdX	www.edx.org/course/mitx/mitx-6-041x-introduction-probability-1296	Massachusetts Institute of Technology	15	12	–	Scholar
EdX	www.edx.org/course/mitx/mitx-7-00x-introduction-biology-secret-1014	Massachusetts Institute of Technology	14	13	Medical expert	–
EdX	www.edx.org/course/mitx/mitx-7-00x-introduction-biology-secret-624	Massachusetts Institute of Technology	14	–	Medical expert	–
EdX	www.edx.org/course/mcgillx/mcgillx-chem181x-food-thought-1213	McGill University	14	5	Medical expert	Health advocate
Coursera	www.coursera.org/course/basicwriting	Mt. San Jacinto College	5	4,5		Communicator
Coursera	www.coursera.org/course/ntufsc	Nanyang Technological University	8	7	Medical expert	–

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/contentstrategy	Northwestern University	6	4,5	Communicator	–
Coursera	www.coursera.org/course/practicaethics	Princeton University	12	6	Professional	–
Coursera	www.coursera.org/course/stats1	Princeton University	12	6,5	Scholar	–
EdX	www.edx.org/course/ricex/ricex-bioc372-1x-fundamentals-immunology-1344	Rice University	8	8,5	Medical expert	–
Coursera	www.coursera.org/course/clinicaltrials	Stanford University	–	1,5	Communicator, scholar	Collaborator
Coursera	www.coursera.org/course/antimicrobial	Stanford University	–	1,5	Medical expert	–
Coursera	www.coursera.org/course/childnutrition	Stanford University	5	3	Health advocate	–
Coursera	www.coursera.org/course/sciwrite	Stanford University	8	6	Scholar	–
Coursera	www.coursera.org/course/intrologic	Stanford University	8	6	–	Scholar
Coursera	www.coursera.org/course/organalysis	Stanford University	10	7	Manager	–
EdX	www.edx.org/course/epflx/epflx-bio465x-neuronal-dynamics-1024	Swiss Federal Institute of Technology Lausanne	7	6	–	Scholar
Coursera	www.coursera.org/course/genrx	The Ohio State University	–	1,5	Medical expert	Health advocate
Coursera	www.coursera.org/course/intropharma	The Ohio State University	7	3,5	–	Scholar
Coursera	www.coursera.org/course/techethics	The Ohio State University	7	4	–	Professional
Coursera	www.coursera.org/course/writing2	The Ohio State University	–	8	–	Communicator
Coursera	www.coursera.org/course/epidemics	The Pennsylvania State University	–	1,5	Health advocate	Medical expert
Coursera	www.coursera.org/course/usefulgenetics2	The University of British Columbia	6	7	–	Medical expert
Coursera	www.coursera.org/course/usefulgenetics	The University of British Columbia	6	7	Medical expert	Scholar, professional
Coursera	www.coursera.org/course/introphil	The University of Edinburgh	7	1,5	–	Professional
Coursera	www.coursera.org/course/clinicalpsych	The University of Edinburgh	5	2	Medical expert	Health advocate
Coursera	www.coursera.org/course/logic1	The University of Melbourne	5	7	–	Scholar
Coursera	www.coursera.org/course/logic2	The University of Melbourne	8	7	–	Scholar
Coursera	www.coursera.org/course/epigenetics	The University of Melbourne	8	7	–	Medical expert
Coursera	www.coursera.org/course/exphys	The University of Melbourne Categories	6	5	–	Medical expert

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/bigidea	The University of North Carolina at Chapel Hill	6	2,5	Scholar	Health advocate
Coursera	www.coursera.org/course/epidemiology	The University of North Carolina at Chapel Hill	6	2,5	Scholar	–
EdX	www.edx.org/course/utaustinx/utaustinx-ut-9-01x-effective-thinking-1178	The University of Texas at Austin	9	5	–	Scholar
EdX	www.edx.org/course/utaustinx/utaustinx-ut-4-01x-take-medicine-impact-669	The University of Texas at Austin	9	–	Scholar	–
EdX	www.edx.org/course/tsinghuax/tsinghuax-80512073x-financial-analysis-1315	Tsinghua University	10	3	–	Manager
Coursera	www.coursera.org/course/intorb	Università Bocconi	6	5	Collaborator, manager	Communicator
EdX	www.edx.org/course/louvainx/louvainx-louv2-01x-international-human-1205	Université catholique de Louvain	10	7		Professional
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-colwri2-2x-principles-1348	University of California, Berkeley	5	4,5	Communicator, scholar	–
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-colwri2-1x-college-writing-1194	University of California, Berkeley	5	5,5	–	Communicator
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-1x-introduction-594	University of California, Berkeley	4	–	Scholar	–
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-3x-introduction-825	University of California, Berkeley	5	–	Scholar	–
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-2x-introduction-685	University of California, Berkeley	5	–	Scholar	–
EdX	www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-1x-introduction-1138	University of California, Berkeley	5	–	Scholar	–
Coursera	www.coursera.org/course/publichealth	University of California, Irvine	5	7	Health advocate	Scholar
Coursera	www.coursera.org/course/scientificthinking	University of California, Irvine	10	7,5	–	Scholar
Coursera	www.coursera.org/course/drugdiscovery	University of California, San Diego	9	3,5	–	Scholar
Coursera	www.coursera.org/course/bioinformatics	University of California, San Diego	12	9	–	Scholar
Coursera	www.coursera.org/course/researchforhealth	University of California, San Francisco	6	3	Scholar	–
Coursera	www.coursera.org/course/genomicmedicine	University of California, San Francisco	7	3	Medical expert	Scholar, professional
Coursera	www.coursera.org/course/poisonings	University of California, San Francisco	6	3,5	Medical expert	–
Coursera	www.coursera.org/course/contraception	University of California, San Francisco	5	4	Medical expert	–

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/ucsfdiabetes	University of California, San Francisco	5	5	Medical expert, health advocate	–
Coursera	www.coursera.org/course/clinicalneurology	University of California, San Francisco	6	5	Medical expert	–
Coursera	www.coursera.org/course/cariesmanagement	University of California, San Francisco	6	5	Medical expert	–
Coursera	www.coursera.org/course/nutrition	University of California, San Francisco	6	5	Medical expert, health advocate	–
Coursera	www.coursera.org/course/clinprobsolv	University of California, San Francisco	–	5	Medical expert	–
Coursera	www.coursera.org/course/diabetes	University of Copenhagen	7	4	Medical expert	Health advocate, scholar
Coursera	www.coursera.org/course/newnordicdiet	University of Copenhagen	4	4,5	–	Medical expert, health advocate
Coursera	www.coursera.org/course/globalhealthintro	University of Copenhagen	6	5	Health advocate	–
Coursera	www.coursera.org/course/humannutrition	University of Florida	–	7	Medical expert	–
Coursera	www.coursera.org/course/globalhealthoverview	University of Geneva	8	6,5	–	Health advocate, scholar
Coursera	www.coursera.org/course/unethicaldecision	University of Lausanne	7	6	Professional	Manager
Coursera	www.coursera.org/course/population	University of Manchester	6	2	Health advocate	–
Coursera	www.coursera.org/course/health	University of Manchester	6	2	–	Health advocate
Coursera	www.coursera.org/course/votingfairdiv	University of Maryland, College Park	7	2	–	Manager
Coursera	www.coursera.org/course/genes	University of Maryland, College Park	6	6,5	–	Medical expert, professional
Coursera	www.coursera.org/course/ushealthcare	University of Michigan	6	3,5	–	Manager
Coursera	www.coursera.org/course/modelthinking	University of Michigan	10	6	–	Scholar
Coursera	www.coursera.org/course/instructmethodshpe	University of Michigan	8	7	Scholar	–
Coursera	www.coursera.org/course/newwayhealthcare	University of Minnesota	10	2,5	Manager, scholar	–
Coursera	www.coursera.org/course/socialepi	University of Minnesota	7	3	Health advocate, scholar	–
Coursera	www.coursera.org/course/vaccines	University of Pennsylvania	–	2	Medical expert, health advocate	–
Coursera	www.coursera.org/course/adhd	University of Pennsylvania	12	3	Medical expert	–
Coursera	www.coursera.org/course/upperlimb	University of Pennsylvania	9	4	Medical expert	–

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/pharm101	University of Pennsylvania	–	4	Medical expert	Scholar
Coursera	www.coursera.org/course/healthpolicy	University of Pennsylvania	8	4,5	–	Manager
Coursera	www.coursera.org/course/neuroethics	University of Pennsylvania	–	5	Professional	–
Coursera	www.coursera.org/course/operations	University of Pennsylvania	8	6	Manager	–
Coursera	www.coursera.org/course/genomescience	University of Pennsylvania	12	7	–	Scholar
Coursera	www.coursera.org/course/oldglobe	University of Pennsylvania	6	7,5	–	Medical expert
Coursera	www.coursera.org/course/rationing	University of Pennsylvania	7	9	Medical expert, manager, professional	–
Coursera	www.coursera.org/course/neurobehavior	University of Pennsylvania	–	–	–	Medical expert, scholar
Coursera	www.coursera.org/course/cardiocarrest	University of Pennsylvania	–	–	Medical expert	–
Coursera	www.coursera.org/course/disasterprep	University of Pittsburgh	6	3	–	Health advocate, professional
Coursera	www.coursera.org/course/clinicalterminology	University of Pittsburgh	6	3	Communicator	–
Coursera	www.coursera.org/course/nutritionforhealth	University of Pittsburgh	6	4	Medical expert, health advocate	–
Coursera	www.coursera.org/course/accountabletalk	University of Pittsburgh	–	4	–	Communicator, scholar
EdX	www.edx.org/course/uqx/uqx-think101x-science-everyday-thinking-1185	University of Queensland	12	2	–	Scholar, professional
Coursera	www.coursera.org/course/bioinfomethods1	University of Toronto	6	3	–	Scholar
EdX	www.edx.org/course/university-torontox/university-torontox-be101x-behavioural-1009	University of Toronto	6	4,5	–	Health advocate
Coursera	www.coursera.org/course/intropsych	University of Toronto	8	5	Medical expert	–
Coursera	www.coursera.org/course/mentalhealth	University of Toronto	6	6	Medical expert, health advocate	–
Coursera	www.coursera.org/course/introstats	University of Toronto	8	7	Scholar	–
Coursera	www.coursera.org/course/publicspeak	University of Washington	10	4	Communicator	–
EdX	www.edx.org/course/uwashingtonx/uwashingtonx-comm220uwx-introduction-1234	University of Washington	10	4	Communicator, scholar	Health advocate
Coursera	www.coursera.org/course/inforiskman	University of Washington	10	5	–	Manager
Coursera	www.coursera.org/course/ltto	UNSW Australia	6	5	Scholar	–

Additional file 1. All relevant and possibly relevant courses found in this study.

Coursera	www.coursera.org/course/lifenutr	Vanderbilt University	7	3		Medical expert
Coursera	www.coursera.org/course/datamanagement	Vanderbilt University	5	3	Scholar	–
Coursera	www.coursera.org/course/innovation	Vanderbilt University	8	7	–	Collaborator, manager, scholar
Coursera	www.coursera.org/course/pdstatistics	Wesleyan University	–	3,5	Scholar	
Coursera	www.coursera.org/course/changetheworld	Wesleyan University	6	4	–	Health advocate
Coursera	www.coursera.org/course/socialpsychology	Wesleyan University	7	6	–	Manager
Coursera	www.coursera.org/course/moralities	Yale University	6	10	–	Professional

MOOC = massive open online course.