

# APPROVED COURSES

## Course Numbering System

The first digit of the course number determines the level of the course, and the last two digits identify the course. Courses ending with the numeral 8 or 9 are the only courses that are repeatable for credit. Course levels are designated as follows:

- 000-099: Non-credit courses
- 100-199: Courses primarily for first-year students
- 200-299: Courses primarily for sophomore students
- 300-399: Junior/Senior courses (not acceptable for credit toward graduate degrees)
- 400-499: Junior/Senior courses (acceptable for credit toward some graduate degrees)
- 500-599: Professional school courses (Dentistry, Law, Medicine) or post-baccalaureate course (not for graduate degree credit)
- 600-898: Courses restricted to graduate students
- 799: Master's Thesis credit
- 899: Doctoral Dissertation credit

## A

- AAAS - African American and Africana Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/aaas/>)
- AAST - Asian American Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/aast/>)
- ABRM - Anti-Black Racism (<https://academiccatalog.umd.edu/undergraduate/approved-courses/abrm/>)
- AGNR - Agriculture and Natural Resources (<https://academiccatalog.umd.edu/undergraduate/approved-courses/agnr/>)
- AGST - Agricultural Science and Technology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/agst/>)
- AMSC - Applied Mathematics & Scientific Computation (<https://academiccatalog.umd.edu/undergraduate/approved-courses/amsc/>)
- AMST - American Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/amst/>)
- ANSC - Animal Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ansc/>)
- ANTH - Anthropology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/anth/>)
- AOSC - Atmospheric and Oceanic Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/aosc/>)
- ARAB - Arabic (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arab/>)
- ARCH - Architecture (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arch/>)
- AREC - Agricultural and Resource Economics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arec/>)
- ARHU - Arts and Humanities (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arhu/>)
- ARHX - Art History & Archaeology Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arhx/>)
- ARMY - Army (<https://academiccatalog.umd.edu/undergraduate/approved-courses/army/>)

- ARSC - Air Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arsc/>)
- ARTH - Art History & Archaeology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arth/>)
- ARTT - Art Studio (<https://academiccatalog.umd.edu/undergraduate/approved-courses/artt/>)
- ARTX - Art Studio Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/artx/>)
- ARUX - Arts and Humanities Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/arux/>)
- ASTR - Astronomy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/astr/>)

## B

- BCHM - Biochemistry (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bchm/>)
- BIOE - Bioengineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bioe/>)
- BIOM - Biometrics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/biom/>)
- BMGT - Business and Management (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bmgt/>)
- BMIN - General Business Minor (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bmin/>)
- BSCI - Biological Sciences Program (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bsci/>)
- BSOS - Behavioral and Social Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bsos/>)
- BSST - Terrorism Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/bsst/>)

## C

- CCJS - Criminology and Criminal Justice (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ccjs/>)
- CHBE - Chemical and Biomolecular Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/chbe/>)
- CHEM - Chemistry (<https://academiccatalog.umd.edu/undergraduate/approved-courses/chem/>)
- CHIN - Chinese (<https://academiccatalog.umd.edu/undergraduate/approved-courses/chin/>)
- CHSE - Counseling, Higher Education, and Special Education (<https://academiccatalog.umd.edu/undergraduate/approved-courses/chse/>)
- CINE - Cinema and Media Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cine/>)
- CINX - Cinema and Media Studies Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cinx/>)
- CLAS - Classics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/clas/>)
- CLAX - Classics Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/clax/>)
- CMLT - Comparative Literature (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cmlt/>)
- CMLX - Comparative Literature Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cmlx/>)
- CMSC - Computer Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cmssc/>)

- COMM - Communication (<https://academiccatalog.umd.edu/undergraduate/approved-courses/comm/>)
- COMX - Communication Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/comx/>)
- CPBE - College Park Scholars-Business, Society, and Entrepreneurship (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpbe/>)
- CPCV - College Park Scholars-Civic Engagement for Social Good (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpcv/>)
- CPDJ - College Park Scholars-Data Justice (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpdj/>)
- CPET - College Park Scholars-Environment, Technology & Economy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpet/>)
- CPGH - College Park Scholars-Global Public Health (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpgh/>)
- CPJT - College Park Scholars-Justice and Legal Thought (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpjt/>)
- CPMS - College Park Scholars-Media, Self and Society (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpms/>)
- CPPL - College Park Scholars-Public Leadership (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cppl/>)
- CPSA - College Park Scholars-Arts (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsa/>)
- CPSD - College Park Scholars-Science, Discovery & the Universe (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsd/>)
- CPSF - College Park Scholars-Life Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsf/>)
- CPSG - College Park Scholars-Science and Global Change (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsg/>)
- CPSN - College Park Scholars-International Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsn/>)
- CPSP - College Park Scholars Program (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpsp/>)
- CPSS - College Park Scholars-Science, Technology and Society (<https://academiccatalog.umd.edu/undergraduate/approved-courses/cpss/>)
- EDHD - Education, Human Development (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edhd/>)
- EDHI - Education Leadership, Higher Ed and International Ed (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edhi/>)
- EDMS - Measurement, Statistics, and Evaluation (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edms/>)
- EDPS - Education Policy Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edps/>)
- EDSP - Education, Special (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edsp/>)
- EDUC - Education (<https://academiccatalog.umd.edu/undergraduate/approved-courses/educ/>)
- ENAE - Engineering, Aerospace (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enae/>)
- ENBC - Biocomputational Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enbc/>)
- ENCE - Engineering, Civil (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ence/>)
- ENEB - Cyber-Physical Systems Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/eneb/>)
- ENED - Engineering Education (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ened/>)
- ENEE - Electrical & Computer Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enee/>)
- ENES - Engineering Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enes/>)
- ENFP - Engineering, Fire Protection (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enfp/>)
- ENGL - English (<https://academiccatalog.umd.edu/undergraduate/approved-courses/engl/>)
- ENGX - English Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/engx/>)
- ENMA - Engineering, Materials (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enma/>)
- ENME - Engineering, Mechanical (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enme/>)
- ENMT - Mechatronics Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enmt/>)
- ENRE - Reliability Engineering (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enre/>)
- ENSP - Environmental Science and Policy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ensp/>)
- ENST - Environmental Science and Technology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/enst/>)
- EPIB - Epidemiology and Biostatistics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/epib/>)

## D

- DANC - Dance (<https://academiccatalog.umd.edu/undergraduate/approved-courses/danc/>)
- DATA - Data Science and Analytics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/data/>)

## E

- EALL - East Asian Languages and Literatures (<https://academiccatalog.umd.edu/undergraduate/approved-courses/eall/>)
- ECON - Economics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/econ/>)
- EDCl - Curriculum and Instruction (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edci/>)
- EDCP - Education Counseling and Personnel Services (<https://academiccatalog.umd.edu/undergraduate/approved-courses/edcp/>)
- EDDI - Education Dialogues (<https://academiccatalog.umd.edu/undergraduate/approved-courses/eddi/>)

## F

- FGSM - Federal and Global Fellows (<https://academiccatalog.umd.edu/undergraduate/approved-courses/fgsm/>)
- FIRE - First-Year Innovation & Research Experience (<https://academiccatalog.umd.edu/undergraduate/approved-courses/fire/>)
- FMSC - Family Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/fmsc/>)
- FREN - French (<https://academiccatalog.umd.edu/undergraduate/approved-courses/fren/>)

**G**

- GBHL - Global Health (<https://academiccatalog.umd.edu/undergraduate/approved-courses/gbhl/>)
- GEMS - Gemstone (<https://academiccatalog.umd.edu/undergraduate/approved-courses/gems/>)
- GEOG - Geographical Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/geog/>)
- GEOL - Geology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/geol/>)
- GERS - German Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/gers/>)
- GREK - Greek (<https://academiccatalog.umd.edu/undergraduate/approved-courses/grek/>)
- GVPT - Government and Politics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/gvpt/>)

**H**

- HACS - ACES-Cybersecurity (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hacs/>)
- HBUS - Interdisciplinary Business Honors (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hbus/>)
- HDCC - Design Cultures and Creativity (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hdcc/>)
- HEBR - Hebrew (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hebr/>)
- HEIP - Entrepreneurship and Innovation (<https://academiccatalog.umd.edu/undergraduate/approved-courses/heip/>)
- HESI - Higher Ed, Student Affairs, and International Ed Policy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hesi/>)
- HESP - Hearing and Speech Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hesp/>)
- HGLO - Honors Global Communities (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hglo/>)
- HHUM - Honors Humanities (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hhum/>)
- HISP - Historic Preservation (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hisp/>)
- HIST - History (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hist/>)
- HISX - History Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hisx/>)
- HLSA - Health Services Administration (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hlsa/>)
- HLSC - Integrated Life Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hlsc/>)
- HLTH - Health (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hlth/>)
- HNUH - University Honors (<https://academiccatalog.umd.edu/undergraduate/approved-courses/hnuh/>)
- HONR - Honors (<https://academiccatalog.umd.edu/undergraduate/approved-courses/honr/>)

**I**

- IDEA - Academy for Innovation & Entrepreneurship (<https://academiccatalog.umd.edu/undergraduate/approved-courses/idea/>)

- IMDM - Immersive Media Design (<https://academiccatalog.umd.edu/undergraduate/approved-courses/imdm/>)
- IMMR - Immigration Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/immr/>)
- INAG - Institute of Applied Agriculture (<https://academiccatalog.umd.edu/undergraduate/approved-courses/inag/>)
- INST - Information Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/inst/>)
- ISRL - Israel Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/isrl/>)
- ITAL - Italian (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ital/>)
- ITAX - Italian Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/itax/>)
- IVSP - Individual Studies Program (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ivsp/>)

**J**

- JAPN - Japanese (<https://academiccatalog.umd.edu/undergraduate/approved-courses/japn/>)
- JOUR - Journalism (<https://academiccatalog.umd.edu/undergraduate/approved-courses/jour/>)
- JWST - Jewish Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/jwst/>)

**K**

- KNES - Kinesiology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/knes/>)
- KORA - Korean (<https://academiccatalog.umd.edu/undergraduate/approved-courses/kora/>)

**L**

- LACS - Latin American and Caribbean Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lacs/>)
- LARC - Landscape Architecture (<https://academiccatalog.umd.edu/undergraduate/approved-courses/larc/>)
- LASX - Certificate in Latin American Studies Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lasx/>)
- LATN - Latin (<https://academiccatalog.umd.edu/undergraduate/approved-courses/latn/>)
- LBSC - Library Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lbsc/>)
- LEAD - Leadership Education and Development (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lead/>)
- LGBT - Lesbian Gay Bisexual Transgender Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lgbt/>)
- LGBX - Lesbian Gay Bisexual Transgender Studies Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/lgbx/>)
- LING - Linguistics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ling/>)

**M**

- MATH - Mathematics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/math/>)

- MEES - Marine-Estuarine-Environmental Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mees/>)
- MIEH - Maryland Institute for Applied Environmental Health (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mieh/>)
- MITH - Maryland Institute for Technology in the Humanities (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mith/>)
- MLAW - MPower Undergraduate Law Programs (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mlaw/>)
- MLSC - MD Language Science Ctr (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mlsc/>)
- MUED - Music Education (<https://academiccatalog.umd.edu/undergraduate/approved-courses/mued/>)
- MUET - Ethnomusicology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/muet/>)
- MUSC - School of Music (<https://academiccatalog.umd.edu/undergraduate/approved-courses/musc/>)
- MUSP - Music Performance (<https://academiccatalog.umd.edu/undergraduate/approved-courses/musp/>)

## N

- NAVY - Navy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/navy/>)
- NEUR - Neuroscience (<https://academiccatalog.umd.edu/undergraduate/approved-courses/neur/>)
- NFSC - Nutrition and Food Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/nfsc/>)

## O

- OURS - Office of Undergraduate Research (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ours/>)

## P

- PEER - Health Center (<https://academiccatalog.umd.edu/undergraduate/approved-courses/peer/>)
- PERS - Persian (<https://academiccatalog.umd.edu/undergraduate/approved-courses/pers/>)
- PHIL - Philosophy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phil/>)
- PHIX - Philosophy Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phix/>)
- PHPE - Philosophy, Politics, and Economics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phpe/>)
- PHPX - Philosophy, Politics, and Economics Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phpx/>)
- PHSC - Public Health Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phsc/>)
- PHYS - Physics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/phys/>)
- PLCY - Public Policy (<https://academiccatalog.umd.edu/undergraduate/approved-courses/plcy/>)
- PLSC - Plant Sciences (<https://academiccatalog.umd.edu/undergraduate/approved-courses/plsc/>)
- PORT - Portuguese (<https://academiccatalog.umd.edu/undergraduate/approved-courses/port/>)

- PSYC - Psychology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/psyc/>)

## Q

- QMMS - Quantitative Methodology: Measurement and Statistics (<https://academiccatalog.umd.edu/undergraduate/approved-courses/qmms/>)

## R

- RDEV - Real Estate Development (<https://academiccatalog.umd.edu/undergraduate/approved-courses/rdev/>)
- RELS - Religious Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/rels/>)
- RELX - Religious Studies Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/relx/>)
- RUSS - Russian (<https://academiccatalog.umd.edu/undergraduate/approved-courses/russ/>)

## S

- SLAA - Second Language Acquisition and Application (<https://academiccatalog.umd.edu/undergraduate/approved-courses/slaa/>)
- SLLC - School of Languages, Literatures and Cultures (<https://academiccatalog.umd.edu/undergraduate/approved-courses/sllc/>)
- SLLX - School of Languages, Literatures & Cultures Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/sllx/>)
- SMLP - Southern Management Leadership Program (<https://academiccatalog.umd.edu/undergraduate/approved-courses/smlp/>)
- SOCY - Sociology (<https://academiccatalog.umd.edu/undergraduate/approved-courses/socy/>)
- SPAN - Spanish (<https://academiccatalog.umd.edu/undergraduate/approved-courses/span/>)
- SPAX - Spanish Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/spax/>)
- SPHL - Public Health (<https://academiccatalog.umd.edu/undergraduate/approved-courses/sphl/>)
- STAT - Statistics and Probability (<https://academiccatalog.umd.edu/undergraduate/approved-courses/stat/>)
- SURV - Survey and Data Science (<https://academiccatalog.umd.edu/undergraduate/approved-courses/surv/>)

## T

- TDPS - Theatre, Dance and Performance Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/tdps/>)
- THET - Theatre (<https://academiccatalog.umd.edu/undergraduate/approved-courses/thet/>)
- THEX - Theatre Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/thex/>)
- TLPL - Teaching and Learning, Policy and Leadership (<https://academiccatalog.umd.edu/undergraduate/approved-courses/tlpl/>)
- TLTC - Teaching and Learning Transformation Center (<https://academiccatalog.umd.edu/undergraduate/approved-courses/tltc/>)

## U

- UMEI - Maryland English Institute (<https://academiccatalog.umd.edu/undergraduate/approved-courses/umei/>)

- UNIV - University Courses (<https://academiccatalog.umd.edu/undergraduate/approved-courses/univ/>)
- URSP - Urban Studies and Planning (<https://academiccatalog.umd.edu/undergraduate/approved-courses/ursp/>)
- USLT - Latina/o Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/uslt/>)

## V

- VIPS - Vertically Integrated Projects (<https://academiccatalog.umd.edu/undergraduate/approved-courses/vips/>)

## W

- WEID - Words of Engagement Intergroup Dialogue Program (<https://academiccatalog.umd.edu/undergraduate/approved-courses/weid/>)
- WGSS - Women, Gender, and Sexuality Studies (<https://academiccatalog.umd.edu/undergraduate/approved-courses/wgss/>)
- WMSX - Women's Studies Education Abroad (<https://academiccatalog.umd.edu/undergraduate/approved-courses/wmsx/>)

## X

- XPER - xFoundry (<https://academiccatalog.umd.edu/undergraduate/approved-courses/xper/>)