CU Boulder List of STEM Disciplines

As of 09/24/2024.

STEM disciplines are fields of study in the categories of science, technology, engineering, and mathematics.

The specific disciplines included in lists of STEM fields vary across organizations, for which the STEM classification serves different functions.
Our list of STEM disciplines relies on two governmental sources...
   - Department of Homeland Security (DHS)
   - National Science Foundation (NSF)

The DHS list is used by U.S. Immigration and Custom Enforcement (ICE) in immigration policy management, particularly as it relates to international students' opportunities for training through work experience in the U.S. The NSF list is used in the collection and reporting of data on STEM fields and in funding STEM programs and initiatives. Both lists are based on the codes developed by the U.S. Department of Education's National Center for Education Statistics (NCES) to classify instructional programs (CIP codes).
The Colorado Department of Higher Education (CDHE) has a website that lists the CIP codes of disciplines included in the ICE and NSF STEM lists

STEM fields of study offered at CU-Boulder are listed in the table below. They include all areas of Engineering in which a degree is offered, nearly all Natural Sciences areas in which a degree is offered (with the exceptions of psychology and geography), four cross-disciplinary programs, and educational research and evaluation methodology.

CIP Code	School/College	Plan Root	Plan Description	ICE STEM	NSF STEM
03.0103	Arts & Sciences	ENVR	Master of the Environment	Y	Y
03.0103	Arts & Sciences	ENVS	Environmental Studies	Y	Y
09.0702	College of Media, Comm & Info	ETMP	Emergent Tech&Media Art Prac	Y	N
09.0702	College of Media, Comm & Info	MDPD	Media Production	Y	N
11.0102	Cross-College Programs	CLSI	CmpLng,Analytics,Srch&Informat	Y	Y
11.0401	College of Media, Comm & Info	INFO	Information Science	Y	Y
11.0701	Engineering & Applied Sci	CSAP	Applied Computer Science	Y	Y
11.0701	Engineering & Applied Sci	CSE3	Computer Science	Y	Y
11.0701	Engineering & Applied Sci	CSEN	Computer Science	Y	Y
14.0101	Engineering & Applied Sci	IDEN	Integrated Design Engineering	Y	Y
14.0102	Cross-College Programs	PREE	Pre-Engineering	Y	Y
14.0103	Engineering & Applied Sci	EME3	Engineering Management	Y	Y
14.0103	Engineering & Applied Sci	EMEN	Engineering Management	Y	Y
14.0201	Engineering & Applied Sci	ASEN	Aerospace Engineering Sciences	Y	Y
14.0401	Engineering & Applied Sci	AREN	Architectural Engineering	Y	Y
14.0501	Engineering & Applied Sci	BMEN	Biomedical Engineering	Y	Y
14.0701	Engineering & Applied Sci	CHEN	Chemical Engineering	Y	Y
14.0801	Engineering & Applied Sci	CVEN	Civil Engineering	Y	Y
14.1001	Engineering & Applied Sci	ECE3	Electrical Engineering	Y	Y
14.1001	Engineering & Applied Sci	EEEN	Electrical Engineering	Y	Y
14.1004	Engineering & Applied Sci	NTEN	Network Engineering	Y	Y
14.1004	Engineering & Applied Sci	TLEN	Telecommunications	Y	Y
14.1201	Engineering & Applied Sci	EPEN	Engineering Physics	Y	Y
14.1401	Engineering & Applied Sci	EVEN	Environmental Engineering	Y	Y
14.1801	Engineering & Applied Sci	MTEN	Materials Science & Engineering	Y	Y
14.1901	Engineering & Applied Sci	MCEN	Mechanical Engineering	Y	Y
14.4201	Engineering & Applied Sci	ROBO	Robotics	Y	Y
14.4501	Engineering & Applied Sci	BIEN	Biological Engineering	Y	Y
14.4701	Engineering & Applied Sci	ECEN	Electrical & Comp Engineering	Y	Y
14.9999	Engineering & Applied Sci	ENED	Engineering Education	Y	Y
14.9999	Engineering & Applied Sci	XXEN	Engineering - Open Option	Y	Y
15.0000	Engineering & Applied Sci	ATLS	Creative Technology and Design	Y	Y
15.0000	Engineering & Applied Sci	TMEN	Creative Technology and Design	Y	Y
26.0202	Arts & Sciences	BCHM	Biochemistry	Y	Y

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26.0406	Arts & Sciences	MCDB	Biological Sciences-Molecular, Cellular, & Devel	Y	Y
26.0901	Arts & Sciences	IPHY	Integrative Physiology	Y	Y
26.1310	Arts & Sciences	EBIO	Ecology & Evolutionary Biology	Y	Y
26.1501	Cross-College Programs	NRSC	Neuroscience	Y	Y
27.0101	Arts & Sciences	MATH	Mathematics	Y	Y
27.0301	Arts & Sciences	AMAT	Math Dept Majr in Applied Math	Y	Y
27.0301	Arts & Sciences	AMEN	Applied Mathematics	Y	Y
27.0301	Engineering & Applied Sci	AMEN	Applied Mathematics	Y	Y
27.0501	Arts & Sciences	STAT	Statistics and Data Science	Y	Y
30.2501	Cross-College Programs	COGS	Cognitive Science	Y	N
30.3001	Cross-College Programs	DTS3	Data Science	Y	Y
30.3001	Cross-College Programs	DTSC	Data Science	Y	Y
40.0201	Arts & Sciences	ASTR	Astrophysical & Planetary Sci	Y	Y
40.0202	Arts & Sciences	ASPS	Astrophysical & Planetary Sciences	Y	Y
40.0401	Arts & Sciences	ATOC	Atmospheric & Oceanic Sciences	Y	Y
40.0501	Arts & Sciences	CHEM	Chemistry	Y	Y
40.0508	Cross-College Programs	CPHY	Chemical Physics	Y	Y
40.0601	Arts & Sciences	GEOL	Geology	Y	Y
40.0603	Cross-College Programs	GEOP	Geophysics	Y	Y
40.0801	Arts & Sciences	PHYS	Physics	Y	Y
42.2799	Arts & Sciences	PSYC	Psychology	Y	Y
52.1301	Business	SCMN	Supply Chain Management	Y	Y
52.1302	Business	BUAN	Business Analytics	Y	Y