

INTRODUCTION TO CIP WORKSHOP

“EVERYTHING YOU WANTED TO KNOW ABOUT...” SERIES

WHAT IS A CIP?

Classification of Instructional Programs (CIP) is a taxonomic or classification scheme that contains titles and descriptions of instructional programs.

- Purpose: To facilitate the organization, collection, analysis and reporting the data about fields of study and program completions.
 - Developed by: U.S. Dept of Education's National Center for Education Statistics
 - 2010 Edition is the fourth revision
 - The accepted federal government statistical standard on instructional program classifications
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CIP CLASSIFICATION SCHEME

- Assumes every instructional program can be assigned to a single six-digit program code associated with a unique program title and description
- Three-level hierarchy of codes
 - Two-digit series represent the most general description
 - Four-digit series represent intermediate groupings of related programs
 - Six-digit series represent specific instructional programs
- Format: XX.XXXX



EXAMPLE

- ⊖ 27) MATHEMATICS AND STATISTICS.
- ⊖ 27.01) Mathematics.
 - 27.0101) Mathematics, General.
 - 27.0102) Algebra and Number Theory.
 - 27.0103) Analysis and Functional Analysis.
 - 27.0104) Geometry/Geometric Analysis.
 - 27.0105) Topology and Foundations.
 - 27.0199) Mathematics, Other.
- ⊖ 27.03) Applied Mathematics.
 - 27.0301) Applied Mathematics, General.
 - 27.0303) Computational Mathematics.
 - 27.0304) Computational and Applied Mathematics.
 - 27.0305) Financial Mathematics.
 - 27.0306) Mathematical Biology.
 - 27.0399) Applied Mathematics, Other.
- ⊖ 27.05) Statistics.
 - 27.0501) Statistics, General.
 - 27.0502) Mathematical Statistics and Probability.
 - 27.0503) Mathematics and Statistics.
 - 27.0599) Statistics, Other.
- ⊖ 27.99) Mathematics and Statistics, Other.
 - 27.9999) Mathematics and Statistics, Other.



The Integrated Postsecondary Education Data System (IPEDS)

Statistical data and information on postsecondary institutions

Classification of Instructional Programs (CIP)



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Detail for CIP Code 27.0103



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Title: Analysis and Functional Analysis.

Definition: A program that focuses on the properties and behavior of equations, multivariate solutions, functions, and dynamic systems. Includes instruction in differential equations, variation, approximations, complex variables, integrals, harmonic analysis and wavelet theory, dynamic systems, and applications to mathematical physics.

Action: No Substantive Changes

▼ Crosswalk ?

✓ CIP Title or Definition Changed

CIP 2000		CIP 2010			
Code	Title	Action	✓	Code	Title
27.0103	Analysis and Functional Analysis.	■		27.0103	Analysis and Functional Analysis.

▼ Illustrative Examples ?

None available

CIP DATA COLLECTION EFFORTS

- Integrated Postsecondary Education Data System (IPEDS)
 - The National Study of Instructional Costs and Productivity (Delaware Study)
 - PASSHE Data Submissions (Appropriation)
 - Other federal agencies
 - National Science Foundation (STEM)
 - Departments of Commerce (Census) & Labor (Employment)
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@ CLARION

- **Program CIP**
 - Institutional Research
 - Program Completers
 - Scorecard
 - Crosswalks to Occupation (SOC) and Industry (NAICS) data
- **Course CIP**
 - Appropriation
 - Enrollment Projections
 - Instructional Productivity

APPROPRIATION FUNDING

- 42% of PASSHE Appropriation funding is for INSTRUCTION
- In-state student enrollment, course level and discipline cost
- Recognizes different costs associated with course discipline and level
 - Based on actual enrollment in specific courses
 - 4 levels of instruction
 - 2 discipline cost categories



DISCIPLINE COST WEIGHT FACTORS

Cost Category	Normal Cost Disciplines	High Cost Disciplines
Lower Division (100-200)	1.00	1.40
Upper Division (300-400)	1.50	1.90
Master's (500+)	1.70	2.10
Doctoral	2.10	5.20

HIGH COST DISCIPLINES

- Health Professions; Health-Related Activities
- Visual and Performing Arts; Architecture
- Physical Sciences; Life Sciences
- Engineering and Related Technologies
- Precisions and Production
- Conservation and Renewable Natural Resources



COST DISCIPLINE

Determined by CIP Program Code

CIP Prog Group	CIP Program Description	PASSHE Discipline Cost
03	Natural Resources & Conservation	H
05	Area, Ethnic, Cult. and Gender Studies	N
09	Communication, Journalism & Related Prog.	N
10	Communications Technologies & Support Svcs.	N
11	Computer & Information Sciences	N
13	Education	N
14	Engineering	H
15	Engineering Technologies	H
16	Foreign Languages, Literatures, & Linguistics	N
19	Family & Consumer Sciences/Human Sciences	N
22	Legal Professions & Studies	N
23	English Language & Literature/Letters	N
24	Liberal Arts/Sciences, General Studies/Humanities	N
25	Library Science	N
26	Biological & Biomedical Sciences	H
27	Mathematics & Statistics	N
28	R.O.T.C.	N
30	Multi./Interdisciplinary Studies	N
31	Parks, Recreation, Leisure & Fitness Studies	N
32	Basic Skills	N
33	Citizenship Activities	N
34	Health Related Knowledge & Skills	H
38	Philosophy & Religious Studies	N
40	Physical Sciences	H
42	Psychology	N
43	Security & Protective Services	N
44	Public Administration/ Social Service Professions	N
45	Social Sciences	N
47	Mechanic & Repair Technologies	N
50	Visual & Performing Arts	H
51	Health Prof. & Related Clin. Sciences	H
52	Business, Management, Marketing	N
54	History	N

WHAT CAN YOU DO?

- Know your Program and Course CIPs
- Review regularly – as program/course requirements change the CIP may change
- Learn more about data available
 - peer comparisons
 - Occupational Outlook
- Maximize your appropriation revenue
 - All students enrolled by census date
 - Consider recasting 400 level graduate courses to the 500 level



FOR ADDITIONAL INFORMATION

University IMIR Web Site

- <http://www.clarion.edu/441/>
 - Program CIPs
 - Course CIPs with Appropriation cost factor

CIP Website

- <http://nces.ed.gov/ipeds/cipcode/default.aspx?y=55>

