

Beyond the General Education Core: STEM Courses That Engage Student Interests



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UW in the High School



- ❧ Started in 1981
- ❧ Available to all schools in Washington State
- ❧ Stats for 2013-14
 - ❧ 18 subject areas
 - ❧ 105 high schools
 - ❧ 229 teachers
 - ❧ 4,425 students
 - ❧ 5,250 registrations



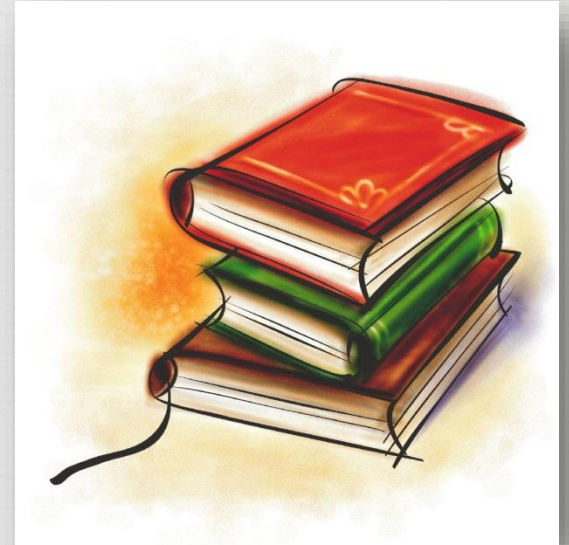
NATIONAL ALLIANCE OF
CONCURRENT ENROLLMENT
PARTNERSHIPS

[Link: UW in the High School](#)

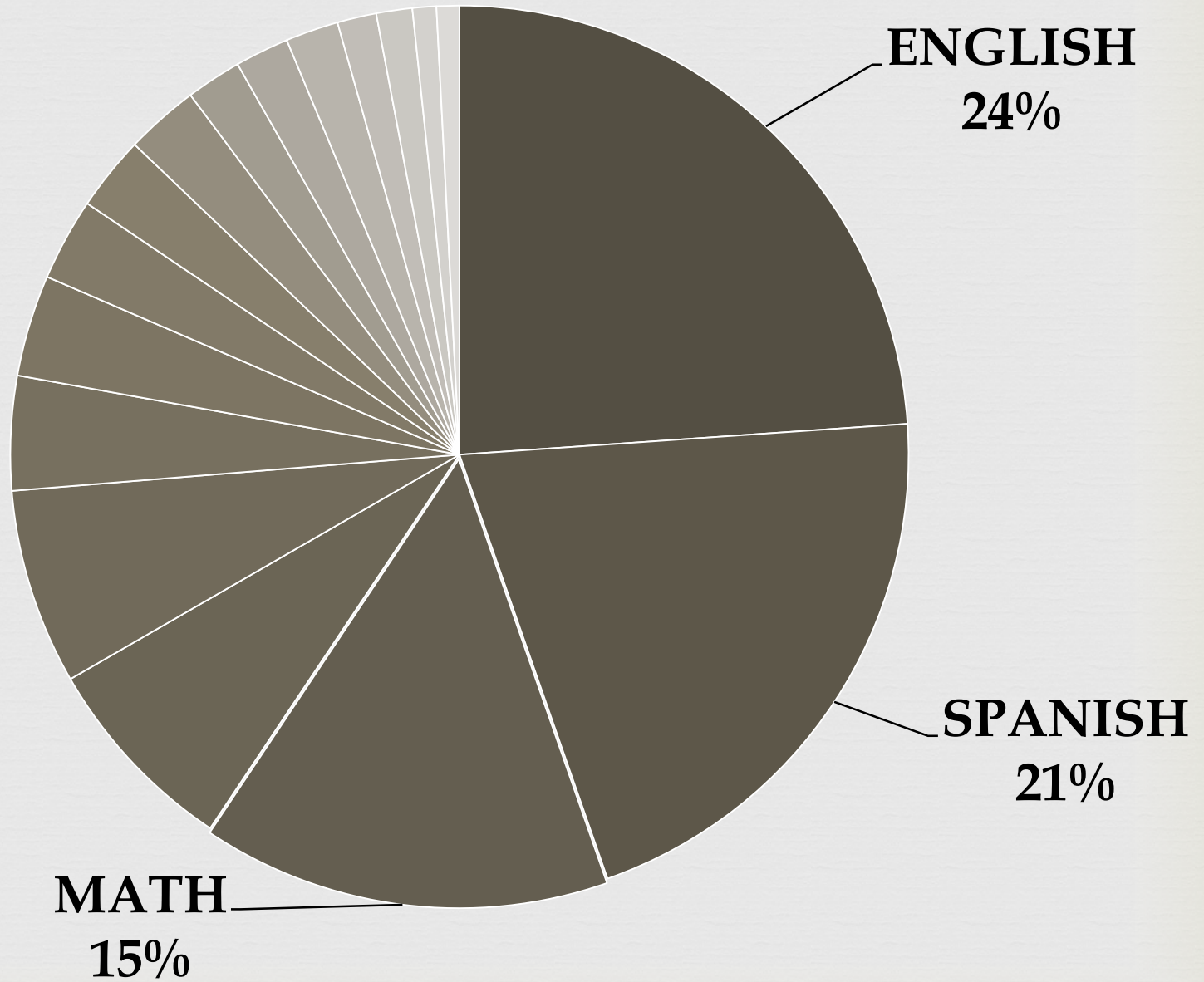
Courses Commonly Offered through Concurrent Enrollment



- ☞ English/Language Arts
- ☞ Math
- ☞ History
- ☞ Psychology
- ☞ World Languages
- ☞ Core Sciences

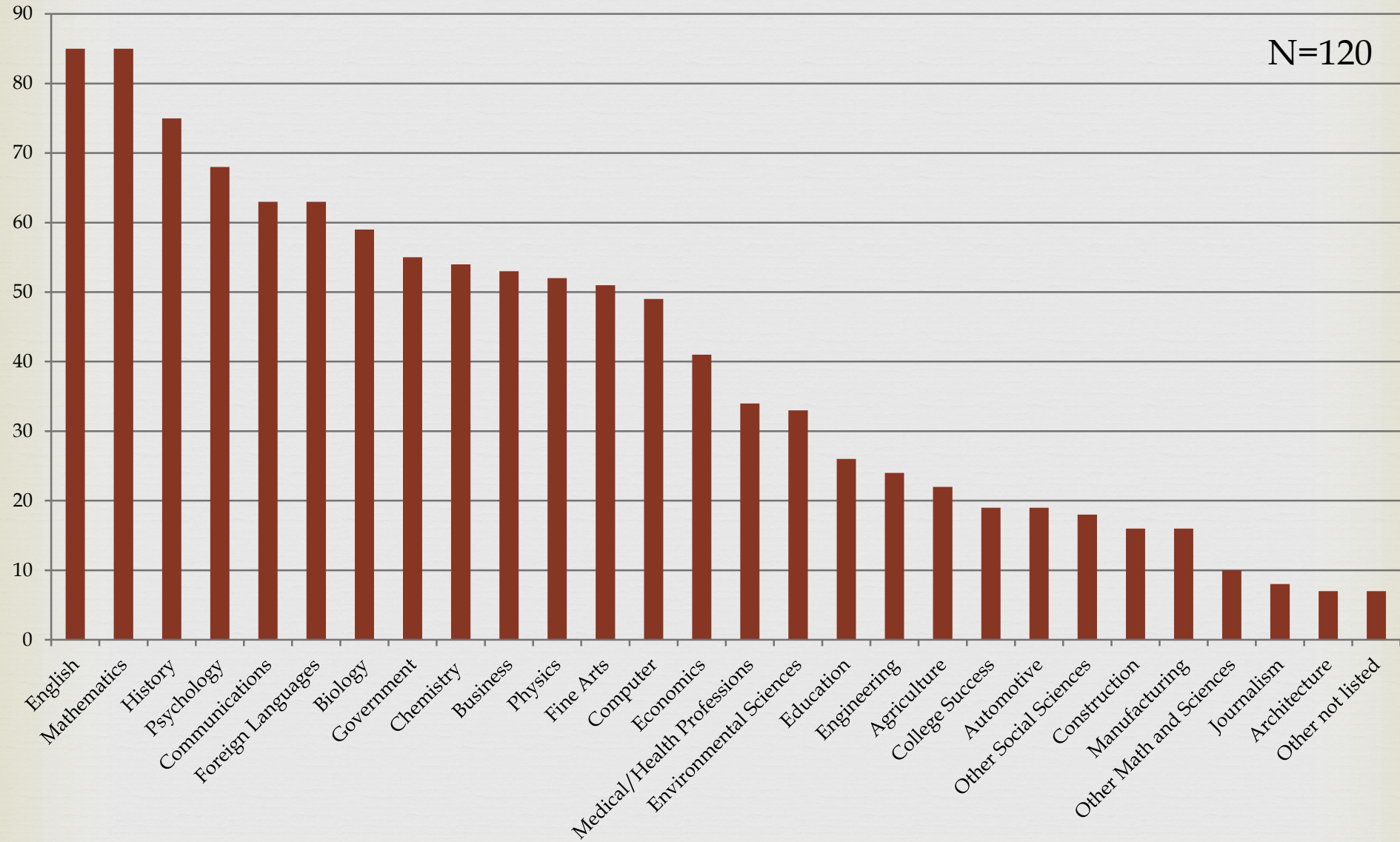


UWHS Registrations by Subject 2013-14



NACEP Survey 2011: Subjects Offered

N=120



Considerations for Adding Courses

- ❧ School, teacher, and student interest
- ❧ Market research
- ❧ Alignment of course within high school curriculum
- ❧ Connection to other advanced courses (e.g. AP)
- ❧ Departmental sponsorship and support
- ❧ Course prerequisites
- ❧ Teacher qualifications
- ❧ Professional development and curriculum resources
- ❧ State policy
- ❧ Grant opportunities

Atmospheric Sciences 211

Climate and Climate Change



- ❧ NASA Grant
- ❧ Teacher Qualifications
 - ❧ MS or MA in Physics, Chemistry, Earth Science, Oceanography, Atmospheric Science or Engineering preferred; college-level coursework in Climate Science
- ❧ First offered in 2011-12
- ❧ 2013-14 Courses
 - ❧ 4 schools
 - ❧ 74 students for UW credit

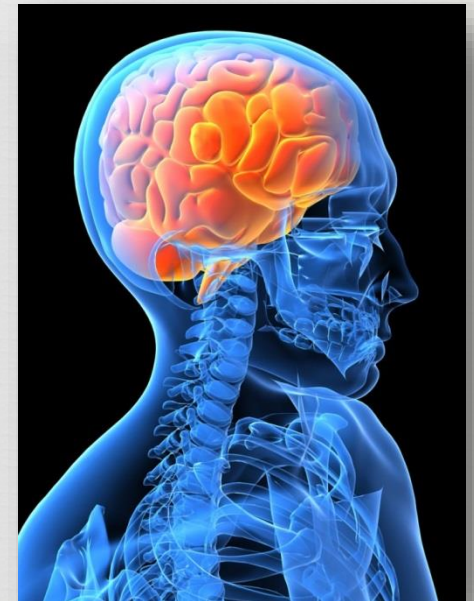


Biology 100

Introductory Biology: Addiction & the Brain



- ❧ NIDA Grant
- ❧ Teacher Qualifications
 - ❧ BS in Biology or Chemistry;
 - ❧ MS or MA in Teaching or Education
- ❧ First offered in 2011-12
- ❧ 2013-14 Courses
 - ❧ 16 schools
 - ❧ 384 students for UW credit



Partner Check-In



One thing you learned or found interesting so far...

Computer Science 120

Computer Science Principles



Teacher Qualifications

- BA/BS in Computer Science or related field;
- technical and teaching experience in HTML, programming, spreadsheets and database

First offered in 2011-12

2013-14 Courses

- 16 schools
- 384 students for UW credit



Oceanography 101

Oceanography of the Pacific Northwest



Teacher Qualifications

- BS in Physics, Chemistry, Biology, or Earth science required;
- MS in science strongly recommended, MA in Education or Teaching considered;
- experience teaching marine science in a high school or college setting

First offered in 2009-10

2013-14 Courses

- 13 schools
- 192 students for UW credit



Global Health 101:

Introduction to Global Health: Disparities, Determinants, Policies and Outcomes



- ❧ Teacher Qualifications
 - ❧ Case by case review
- ❧ Piloting in 2014-15!
 - ❧ 1 school



General Education Degree Requirements



Course	Natural World	Individuals & Society	Quantitative & Symbolic Reasoning
ATM S 211	X	X	
BIOL 100	X		
CSE 120	X		X
G H 101		X	
OCEAN 101	X		

Discussion



- Examples of STEM coursework through concurrent enrollment
- Other considerations specific to Colorado
- Concerns
- Questions
- Other comments

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A presentation given for the
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