



University of Colorado  
Boulder

# History and Timeline

- **Since 1981: Academic Program Review**
  - **Board of Regents mandated**
  - **Programs reviewed every 7 years**
- **2014: Regents task campuses to develop Academic Prioritization rubric**
- **Annually since 2014: CU Boulder conducts Academic Prioritization**

# Academic Prioritization Objectives

- **Understand impact of changes resulting from academic program review**
- **Inform assessments of program effectiveness and viability**
- **Inform investment and disinvestment decisions by Provost and CFO**



# Academic Prioritization Metrics

**Four factors equally weighted:**

- 1. Resource Efficiency**
- 2. Degree Production**
- 3. Undergraduate Teaching Effectiveness**
- 4. Scholarly Accomplishments**



## 1. Resource Efficiency: Funds and Space

- Expenditure/SCH (student credit hour)
- Income vs. expense
- Average space efficiency score

## 2. Degree Production

- Share of all degrees awarded annually
- Share of graduate degrees awarded annually



### **3. Undergraduate Teaching Effectiveness**

- Teaching non-majors
- Senior Survey: major satisfaction
- Senior Survey: job preparation

### **4. Scholarly Accomplishments**

- Based on Academic Analytics measures
- Compares faculty accomplishment to Association of American Universities (AAU) peer institutions
- Publications, citations, funding, honors



# Metrics: Scale

- Highly Effective at Delivering Campus Mission
- Very Effective at Delivering Campus Mission
- Effective at Delivering Campus Mission
- Moderately Effective at Delivering Campus Mission
- Less Than Effective

# Metrics: Ratings Dashboard for 2019

|                          | BACHELOR   | MASTERS | DOCTORATE | FY13 GF exp/SCH     | Income and Expenses (PBA Sources and Uses) | AVG Space Efficiency Score | SCORE | % of total degrees (6 yr. avg) | % of total graduate degrees (6 yr. avg) | SCORE | Percentile Rank in Academic Analytics | SCORE | % of undergrad SCH taken by majors in other degree Programs FY15 | Mean of responses to Spring 2016 Seniors' Survey Major Satisfaction | Mean of responses to Spring 2016 Seniors' Survey Job Prep | SCORE |      |
|--------------------------|--|---------|-----------|---------------------|--|----------------------------|-------|--------------------------------|---|-------|---------------------------------------|-------|--|---|---|-------|------|
|                          | Degree Uniqueness<br>CU=unique to CU-Boulder<br>* = offered at CU-Boulder<br>blank= degree not offered at CU-Boulder |         |           | Resource Efficiency |  |                            |       | Degree Production              |   |       | Scholarly Accomplishments             |       | Undergraduate Teaching Effectiveness                             |   |   | Score |      |
| Psychology               | *  | *       | *         | ●                   | ●  | ●                          | 4.33  | ●                              | ●                                       | 4.00  | ●                                     | 5.00  | ○  | ●   | ●   | 3.67  | 4.25 |
| Integrative Physiology   | CU   | CU      | CU        | ●                   | ●  | ●                          | 4.17  | ●                              | ●                                       | 4.00  | ●                                     | 5.00  | ○  | ●   | ●   | 3.67  | 4.21 |
| Civil Engineering        | *  | *       | *         | ●                   | ●  | ●                          | 3.67  | ●                              | ●                                       | 4.50  | ●                                     | 5.00  | ●  | ●   | ●   | 3.67  | 4.21 |
| Computer Science         | *  | *       | *         | ●                   | ●  | ●                          | 4.50  | ●                              | ●                                       | 4.00  | ●                                     | 5.00  | ○  | ●   | ●   | 3.33  | 4.21 |
| Physics                  | *  | *       | *         | ●                   | ●  | ●                          | 4.00  | ●                              | ●                                       | 3.00  | ●                                     | 5.00  | ●  | ●   | ●   | 4.67  | 4.17 |
| Chemistry & Biochemistry | *  | *       | *         | ●                   | ●  | ●                          | 3.83  | ●                              | ●                                       | 3.00  | ●                                     | 5.00  | ●  | ●   | ●   | 4.67  | 4.13 |
| Eco and Evo Biology      | CU   | CU      | CU        | ●                   | ●  | ●                          | 4.17  | ●                              | ○                                       | 3.00  | ●                                     | 5.00  | ●  | ●   | ●   | 4.33  | 4.13 |
| Aerospace                | *  | *       | *         | ●                   | ●  | ●                          | 3.83  | ●                              | ●                                       | 4.00  | ●                                     | 5.00  | ●  | ●   | ●   | 3.33  | 4.04 |
| Business                 | *  | *       | CU        | ●                   | ●  | ●                          | 3.83  | ●                              | ●                                       | 5.00  | ●                                     | 4.00  | ●  | ●   | ●   | 3.33  | 4.04 |
| Geography                | *  | CU      | CU        | ●                   | ●  | ●                          | 3.83  | ●                              | ○                                       | 2.50  | ●                                     | 5.00  | ●  | ●   | ●   | 4.67  | 4.00 |
| Mechanical Engineering   | *  | *       | *         | ●                   | ●  | ●                          | 4.00  | ●                              | ●                                       | 4.50  | ●                                     | 4.00  | ●  | ●   | ●   | 3.33  | 3.96 |
| Sociology                | *  | *       | *         | ●                   | ●  | ●                          | 5.00  | ●                              | ●                                       | 2.50  | ●                                     | 4.00  | ●  | ●   | ●   | 4.33  | 3.96 |
| Applied Mathematics      | CU   | *       | *         | ●                   | ●  | ●                          | 4.17  | ○                              | ●                                       | 2.50  | ●                                     | 4.00  | ●  | ●   | ●   | 5.00  | 3.92 |
| Political Science        | *  | *       | *         | ●                   | ●  | ●                          | 4.33  | ●                              | ○                                       | 3.00  | ●                                     | 4.00  | ●  | ●   | ●   | 4.00  | 3.83 |
| Economics                | *  | *       | *         | ●                   | ●  | ●                          | 4.17  | ●                              | ●                                       | 4.00  | ●                                     | 3.00  | ●  | ●   | ●   | 4.00  | 3.79 |
| International Affairs    | *  |         |           | ●                   | ●  | ●                          | 4.50  | ●                              | ●                                       | 4.00  | ●                                     | 3.00  | ○  | ●   | ●   | 3.67  | 3.79 |
| Geological Sciences      | *  | *       | *         | ●                   | ●  | ●                          | 3.67  | ○                              | ○                                       | 2.00  | ●                                     | 5.00  | ●  | ●   | ●   | 4.33  | 3.75 |
| Chemical Engineering     | *  | *       | *         | ●                   | ●  | ●                          | 3.83  | ●                              | ●                                       | 3.00  | ●                                     | 5.00  | ●  | ●   | ●   | 3.00  | 3.71 |



# Metrics:

## Summative results from 2019

### ● **Highly Effective**

- Psychology
- Integrative Physiology
- Civil Engineering
- Computer Science
- Physics
- Chemistry and Biochemistry
- Ecology and Evolutionary Biology
- Aerospace
- Business
- Geography

### ● **Very Effective**

- Mechanical Engineering
- Sociology
- Applied Mathematics
- Political Science
- Economics
- International Affairs
- Geological Sciences
- Chemical Engineering
- Anthropology
- English
- Mathematics
- Electrical Engineering
- History
- Atmospheric & Oceanic Sciences
- Classics
- MCDB
- Astrophysical & Planetary Sciences
- Cinema Studies
- Linguistics
- Philosophy
- Education
- Ethnic Studies
- Germanic and Slavic

## **Effective**

- Communication
- Women and Gender Studies
- Music
- Theatre and Dance
- Environmental Studies
- Other A&S Degrees
- Humanities
- Speech, Language and Hearing Sciences
- Environmental Design
- French and Italian
- Spanish and Portuguese
- Journalism
- Asian Languages and Civilizations
- Religious Studies
- Art and Art History
- Other Engineering
- Law

## **Moderately Effective**

- None in this category in 2019

## **Less Than Effective**

- ATLAS
- ~~Comparative Literature~~ [discontinued in 2017, last students completing degrees]



# Examples of Discontinuance and Restructuring Since 2014

- **School of Law LLM degree: discontinued and later relaunched with new focus**
- **Program in Comparative Literature: discontinued**
- **Program in Environmental Design: rightsized**

# Examples of Improvements to Academic Programs Since 2014: Respond to Student Demand, Increase Enrollments

- **ATLAS program: new undergraduate degree and minor**
- **Department of Atmospheric and Oceanic Sciences: new undergraduate degree**
- **Department of Cinema Studies: revised undergraduate curriculum**

# Annual Calendar and More Information

## **2019-20 annual Academic Prioritization calendar:**

- Summer 2019: Metrics generated
- Fall 2019–early 2020: Evaluation by the academic program review committee
- Spring 2020: Committee report reviewed and approved by Provost and posted on Academic Affairs web site

## **More information:**

[www.colorado.edu/academicaffairs/academic-planning-assessment/academic-prioritization](http://www.colorado.edu/academicaffairs/academic-planning-assessment/academic-prioritization)

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