THESE DISCIPLINES ARE INCLUDED IN THE 2022 CBL COMPETITION

**DISCIPLINE DIVISION**

<table>
<thead>
<tr>
<th>Physical sciences</th>
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<tr>
<td>Physical Sciences</td>
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<tr>
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<tr>
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<tr>
<td>Astronomy and astrophysics, other</td>
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<tr>
<td>Atmospheric sciences and meteorology, general</td>
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<tr>
<td>Atmospheric chemistry and climatology</td>
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<tr>
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<tr>
<td>Atmospheric sciences and meteorology, other</td>
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<tr>
<td>Chemistry, general</td>
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<td>Organic chemistry</td>
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<tr>
<td>Polymer chemistry</td>
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<tr>
<td>Chemical physics</td>
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<tr>
<td>Environmental chemistry</td>
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<tr>
<td>Theoretical chemistry</td>
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<tr>
<td>Chemistry, other</td>
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<td>Geology/earth science, general</td>
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<tr>
<td>Hydrology and water resources science</td>
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<td>Geochemistry and petrology</td>
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<tr>
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<td>Optics/optical sciences</td>
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<tr>
<td>Condensed matter and materials physics</td>
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<tr>
<td>Theoretical and mathematical physics</td>
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<tr>
<td>Materials science</td>
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<td>Materials chemistry</td>
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<td>Materials sciences, other</td>
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<tr>
<td>Physical sciences, other</td>
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</tbody>
</table>
2022 INCLUDED DISCIPLINES (CONTINUED)

DISCIPLINE DIVISION

Mathematics and statistics .................................................................
- Mathematics, general
- Analysis and functional analysis
- Topology and foundations
- Mathematics, other
- Applied mathematics, general
- Computational mathematics
- Computational and applied mathematics
- Financial mathematics
- Applied mathematics, other
- Statistics, general
- Mathematical statistics and probability
- Mathematics and statistics
- Statistics, other
- Mathematics and statistics, other

DISCIPLINE DIVISION

Computer Sciences - Excludes IT, non-PhD fields, & business school-based majors
- Computer and information sciences, general (non-business school based only)
- Artificial intelligence
- Computer programming/programmer, general
- Computer science
- Modeling, virtual environments and simulation
- Computer and information systems security/information assurance

DISCIPLINE DIVISION

Engineering .................................................................
- Engineering, general
- Aerospace, aeronautical and astronautical engineering
- Agricultural engineering
- Architectural engineering
- Bioengineering and biomedical engineering
- Ceramic sciences and engineering
- Chemical engineering
- Chemical and biomolecular engineering
- Civil engineering, general
- Geotechnical and geoenvironmental engineering
- Structural engineering
2022 INCLUDED DISCIPLINES (CONTINUED)

DISCIPLINE DIVISION

Engineering (continued) ..........................................................

- Transportation and highway engineering
- Water resources engineering
- Civil engineering, other
- Computer engineering, general
- Computer hardware engineering
- Computer software engineering
- Computer engineering, other
- Electrical and electronics engineering
- Laser and optical engineering
- Telecommunications engineering
- Electrical, electronics and communications engineering, other
- Engineering mechanics
- Engineering physics/applies physics
- Engineering science
- Environmental/environmental health engineering
- Materials engineering
- Mechanical engineering
- Metallurgical engineering
- Mining and mineral engineering
- Naval architecture and marine engineering
- Nuclear Engineering
- Ocean engineering
- Petroleum engineering
- Systems engineering
- Textile sciences and engineering
- Polymer/plastics engineering
- Construction engineering
- Forest engineering
- Industrial engineering
- Manufacturing engineering
- Operations research
- Surveying engineering
- Geological/geophysical engineering
- Paper science and engineering
- Electromechanical engineering
- Mechatronics, robotics, and automation engineering
- Biochemical engineering
- Engineering chemistry
- Biological/biosystems engineering
2022 INCLUDED DISCIPLINES (CONTINUED)

DISCIPLINE DIVISION

Engineering (continued) ..........................................................
  Engineering, other

DISCIPLINE DIVISION

Biological and biomedical sciences – PLEASE NOTE: Only the 3 subdisciplines below are INCLUDED; all other biological and biomedical sciences are EXCLUDED
  Biophysics
  Bioinformatics
  Biomathematics, bioinformatics, and computational biology, other

THESE DISCIPLINES ARE EXCLUDED IN THE 2022 CBL COMPETITION

DISCIPLINE DIVISION

Biological and biomedical sciences ...............................................
  Biology/biological sciences, general
  Biomedical sciences, general
  Biochemistry
  Molecular biology
  Molecular biochemistry
  Molecular biophysics
  Structural biology
  Radiation biology/radiobiology
  Biochemistry and molecular biology
  Biochemistry, biophysics and molecular biology, other
  Botany/plant biology
  Plant pathology/phytopathology
  Plant physiology
  Plant molecular biology
  Botany/plant biology, other
  Cell/cellular biology and histology
  Anatomy
  Developmental biology and embryology
  Cell/cellular and molecular biology
  Cell biology and anatomy
  Cell/cellular biology and anatomical sciences, other
  Microbiology, general
  Medical microbiology and bacteriology
  Virology
  Parasitology
2022 EXCLUDED DISCIPLINES (CONTINUED)

DISCIPLINE DIVISION

Biological and biomedical sciences (continued) ..........................................................

- Immunology
- Microbiology and immunology
- Microbiological sciences and immunology, other
- Zoology/animal biology
- Entomology
- Animal physiology
- Animal behavior and ethology
- Wildlife biology
- Zoology/animal biology, other
- Genetics, general
- Molecular genetics
- Animal genetics
- Plant genetics
- Human/medical genetics
- Genome sciences/genomics
- Genetics, other
- Physiology, general
- Molecular physiology
- Cell physiology
- Endocrinology
- Reproductive biology
- Cardiovascular science
- Exercise physiology
- Vision science/physiological optics
- Pathology/experimental pathology
- Oncology and cancer biology
- Physiology, pathology, and related sciences, other
- Pharmacology
- Molecular pharmacology
- Neuropsycharmacology
- Toxicology
- Molecular Toxicology
- Environmental toxicology
- Pharmacology and toxicology
- Pharmacology and toxicology, other
- Biometry/biometrics
- Biostatistics
- Computational biology
- Biotechnology
- Ecology
2022 EXCLUDED DISCIPLINES (CONTINUED)

DISCIPLINE DIVISION

Biological and biomedical sciences (continued) ..........................................................
  - Marine biology and biological oceanography
  - Evolutionary biology
  - Aquatic biology/limnology
  - Environmental biology
  - Population biology
  - Conservation biology
  - Systematic biology/biological systemics
  - Epidemiology
  - Ecology and evolutionary biology
  - Ecology, evolution, systematics and population biology, other
  - Molecular medicine
  - Neuroscience
  - Neurobiology and anatomy
  - Neurobiology and behavior
  - Neurobiology and neurosciences, other
  - Biological and biomedical sciences, other

Medical and Health Sciences not listed above are also EXCLUDED

DISCIPLINE DIVISION

Natural Resources and Conservation ..............................................................
  - Environmental science
  - Environmental studies

DISCIPLINE DIVISION

Social & Behavioral Sciences - All Social & Behavioral Sciences are EXCLUDED - e.g., Sociology, Anthropology, Archaeology, Psychology, Political Science, Economics, Linguistics, Human Geography, etc.

IF, AFTER REVIEWING THIS LIST, YOU STILL HAVE QUESTIONS ABOUT INCLUDED/EXCLUDED DISCIPLINES (E.G., INTERDISCIPLINARY MAJORS/DEGREES) PLEASE CONTACT CBL PROGRAM STAFF