EARTH DATA ANALYTICS - FOUNDATIONS - GRADUATE CERTIFICATE

In today’s world of big data, rapid technological change and natural resource scarcity, earth scientists with data science expertise are in high demand. The earth data analytics foundations professional graduate certificate is designed to provide students with a powerful combination of skills in earth science, data analytics, interdisciplinary collaboration and science communication.

The professional certificate in earth data analytics foundations provides core skills required for a career in computationally intensive earth sciences. These skills, identified through a survey of both industry representatives and the scientific community, and supplemented by a literature review, include the ability to:

- address domain specific scientific challenges and questions using readily available, multi-dimensional, data streams;
- efficiently process, integrate, analyze and visualize heterogeneous spatio-temporal data;
- communicate effectively across disciplines; and,
- efficiently and effectively collaborate with colleagues in interdisciplinary environments.

The certificate can be used to start or advance a career in the rapidly expanding world of data intensive environmental inquiry and tool development.

To learn more, visit the Earth Data Analytics - Foundations website (http://www.colorado.edu/earthlab/earth-analytics-education/earth-data-analytics-foundations-professional-certificate).

Requirements

The professional graduate certificate requires three sequential courses beginning in August and ending in May and can be completed over nine months online.

Required Courses and Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>GEOG 5463</td>
<td>Earth Analytics Data Science Bootcamp</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5563</td>
<td>Earth Analytics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5663</td>
<td>Earth Analytics Applications</td>
<td>3</td>
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Total Credit Hours 9