MATHEMATICS (PH.D.)

https://ceps.unh.edu/mathematics-statistics/program/phd/mathematics

Description
The Mathematics Ph.D. program provides research opportunities in core mathematics, including operator algebras, algebra, algebraic topology, analysis and complex analysis.

Admission Requirement
Applicants for the M.S. and Ph.D. degrees must have completed significant undergraduate coursework in mathematics, preferably in algebra, analysis, and topology.

Applying
Please visit the Graduate School website (https://gradschool.unh.edu/admissions/apply) for detailed instructions about applying to the program.

Requirements
Students are advanced to candidacy after meeting the following requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 951</td>
<td>Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 952</td>
<td>Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 953</td>
<td>Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 954</td>
<td>Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 955</td>
<td>Topology I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
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Mathematics Ph.D. students must pass written comprehensive examinations in algebra, analysis, topology and an elective subject. Elective subjects include functional analysis, algebraic topology, applied mathematics, statistics, advanced algebra, advanced complex analysis, advanced mathematics education, et al.

Advanced coursework in a minor field (usually within mathematics, but possibly in another area of the mathematical sciences), and a major field (that of the student's intended dissertation work) followed by successfully completion of oral examinations in their minor and major areas.

Experience in teaching equivalent to at least half-time for one year.

Dissertation
Doctor of Philosophy in Mathematics: A dissertation that includes original results in mathematics.