# Forest Biomaterials (PhD)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 701</td>
<td>PhD Research Methods in Forest Biomaterials</td>
<td>12</td>
<td></td>
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</tbody>
</table>

FB 801 Doctoral Seminar

Select three of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FB 516</td>
<td>Forest Products Colloids &amp; Surfaces</td>
</tr>
<tr>
<td>FB 565</td>
<td>Forest Biomaterials Physics</td>
</tr>
<tr>
<td>FB 723</td>
<td>Forest Biomaterials Chemistry</td>
</tr>
<tr>
<td>FB 760</td>
<td>Engineering Unit Operations for Biomass Conversion</td>
</tr>
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</table>

## Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FB 510</td>
<td>Strategic Business Processes for the Forest Products Industry</td>
</tr>
<tr>
<td>FB 522</td>
<td>Chemical Principles for the Papermaking Process Engineer</td>
</tr>
<tr>
<td>FB 527</td>
<td>Wet-End and Colloidal Chemistry</td>
</tr>
<tr>
<td>FB 576</td>
<td>Environmental Life Cycle Analysis</td>
</tr>
<tr>
<td>FB 580</td>
<td>The Sustainable Bioeconomy</td>
</tr>
</tbody>
</table>

## Additional Courses

"Additional Courses" are approved in conjunction with the academic committee to meet 72 total hours

Total Hours 82

## Faculty

### Full Professors

Dimitris S. Argyropoulos

### Associate Professors

Lucian A. Lucia
Philip H. Mitchell
Lokendra Pal
Sunkyu Park
Joel Justin Pawlak
Perry N. Peralta
Ilona Maria Peszlen
Leah C. Rathbun
Daniel Erique Saloni

### Assistant Professors

Ronals Wilfredo Gonzalez
Paul Frederik Laleicke
Nathalie Marie Lavoine
Yuan Yao

### Practice/Research/Teaching Professors

Medwick V. Byrd
Elizabeth Kierpka
Rico Ruffino

### Emeritus Faculty

Hou-Min Chang
Ellis B. Cowling
Earl L. Deal
Eric L. Ellwood
Edward T. Funkhouser
Irving S. Goldstein
John A. Heitmann Jr.
Larry G. Jahn
Magret Joyce
Adrianna G. Kirkman
Michael J. Kocurek
Ronald G. Pearson
Richard J. Thomas
Elisabeth A. Wheeler

Adjunct Faculty
Sujit Banerjee
Jesse Daystar
Richard Phillips