### Subject name
The Outline of Applied Silviculture in North America

### Subject code

<table>
<thead>
<tr>
<th>Department</th>
<th>Faculty</th>
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<tr>
<td>Department of Silviculture</td>
<td>Faculty of Forestry</td>
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### Subject supervisor/Lecturer
dr. hab. inż. Maciej Pach

### General information

<table>
<thead>
<tr>
<th>Teaching period</th>
<th>summer semester</th>
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<tr>
<td>ECTS credit</td>
<td>1</td>
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<tr>
<td>Contact hours total</td>
<td>15</td>
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<tr>
<td>Lectures/classes</td>
<td>15/0</td>
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### Objective and general description
The main objective of the course is to familiarize participants with main forest biomes and silvics in North America, basic methods of natural and artificial regeneration of forests and reforestation using different silvicultural systems, main methods of intermediate treatment and application of various silvicultural prescriptions to accomplish land management objectives.

### Lectures
Content:
1. Basic forestry (silvicultural) terms. Basic silvics and biomes of North America.
2. Silvicultural systems – Regeneration methods, high forest methods (even-aged stands, uneven-aged stands), coppice forest methods (coppice methods, coppice with standards).
3. Artificial regeneration, site preparation (slash disposal, prescribe burning, fertilization, mechanical treatment (mounding, scalping, mixing, disc trenching, plowing), chemical treatment, use of hand tools), methods of planting, seeding.
4. Stages of natural and managed stand development (tree size classification), intermediate treatments - release operation (weeding, cleaning, liberation), thinning (non-commercial, timber stand improvement, commercial).
5. Intermediate treatments - improvement cutting (presalvage, salvage and sanitation cutting), wood quality operation (pruning), fertilization, prescribed burning.
6. Fire management, environmental issues of applied silviculture, biodiversity.

### Assessment method
written exam (test)

### Literature
- Silviculture and Forest Aesthetics Handbook, 2431.5. 2009. State of Wisconsin, Department of Natural Resources, USA, 551 p.;