

# ARTICULATION AGREEMENT

## PAUL SMITH'S COLLEGE

Forestry, B.S.

AND

## ADIRONDACK COMMUNITY COLLEGE

Liberal Arts and Sciences: Mathematics-Science A.S.

<b>Paul Smith's College Requirements</b>	<b>Adirondack Community College Equivalents</b>
Degree in appropriate field	Liberal Arts and Sciences: Mathematics- Science A.S.
English Composition 131 3 credits	ENG 101 Writing I <i>or</i> ENG 100 A & B Writing/Reading Workshop 3 credits
English Composition 132 3 credits	ENG 102-109 Writing II ( for ENG 110 see below) 3 credits
Mathematics course (Calculus strongly recommended) 3-4 credits	Math Course (MAT 131 Calculus I recommended) 3-4 credits
Statistics 245 4 credits	Math/Science Course: MAT 127 Introductory Statistics with Probability 4 credits
Social Science/Humanities 12 credits	Social Sciences and Humanities courses <i>including</i> History Elective 12 credits
General Biology 141 4 credits	Lab Science Course: BIO 111 General Zoology 4 credits
General Biology 142 4 credits	Math/Science Course: BIO 112 General Botany 4 credits
General Chemistry 141 4 credits	Math/Science Course: CHM 111 General Chemistry I 4 credits
Microeconomics 231 3 credits	Liberal Arts Elective: ECO 201 Principles of Economics (Macro) 3 credits
Speech 132 3 credits	Liberal Arts Elective: SPH 111 Speech 3 credits
Technical Communications 231 <i>or</i> Business Communications 132 3 credits	Elective: ENG 110 Elements of Technical Writing <i>or</i> BUS 211 Business Communications 3 credits
Open Electives 4-13 credits	<u>Courses transferred as electives:</u> Science/Math Courses* 12 credits Electives* 3-5 credits
	<b>Total Credits Transferred:</b> <u>61-64</u>

**\* IMPORTANT:** Please see the following pages which list courses specific to the PSC Forestry program's five concentrations. Some of these courses are required, others are on lists from which the student may select one or two. *If the ACC student is certain of his/her choice of concentration, and if there is an ACC equivalent for a PSC Forestry concentration course that the ACC student would like to take at ACC, the student has that choice.* PSC recommends at least two concentration courses be taken at ACC, if possible.

**CONCENTRATION 1 of 5: FOREST BIOLOGY**

**Concentration Requirements:**

Insects and Diseases of Trees 131 or Forest Health 221      2-3 Credits  
Forest Soils 231      3 Credits

**Ecology 231**      **3 Credits**

*ACC Equivalent:  
BIO 205 General Ecology,  
3 of 4 credits*

Conservation Biology 332      3 Credits

**Organic Chemistry 241 or Physics 241**      **4 Credits**

*ACC equivalents:  
CHM 203 Organic Chemistry I  
or PHY 111 General Physics I  
4 credits*

Genetics 331      3 Credits

**Methods Cluster (choose 2 courses):**

Introduction to GIS 232      3 Credits

Biometrics 432      4 Credits

Instrumentation 431      3 Credits

Environmental Simulation Modeling 431      3 Credits

Computer Applications in Science 335      3 Credits

Forestry Externship 330      3 Credits

**Biological Sciences Cluster (choose 3 courses):**

**Plant Biology 231**      **3 Credits**

*ACC equivalent:  
BIO 112 General Botany  
3 of 4 credits*

Field Ecology 232 or Natural Habitat Interpretation 232      3 Credits

Limnology 232      3 Credits

Tropical Ecology 231/241      3-4 Credits

Landscape Ecology 332      3 Credits

Plant Physiology 332      3 Credits

Physiological Ecology 332      3 Credits

Entomology 341      4 Credits

Winter Ecology 432      3 Credits

Plant Ecology & Systematics 331      3 Credits

Understory and Ground Cover Flora 331      3 Credits

Wetland Ecosystems and Management 432      3 Credits

Paleoecology 442      3 Credits

**Total Forest Biology Requirements**

**33-37 Credits**

**CONCENTRATION (2 of 5): ECOLOGICAL FOREST MANAGEMENT**

**Concentration Requirements:**

Insects and Diseases of Trees 131 or Forest Health 221	2-3 Credits
Forest Soils 231	3 Credits
Introduction to GIS 232	3 Credits

***Surveying 241***

**4 Credits**

**ACC equivalent: TEC 111  
Surveying  
3 credits**

New Paradigms in Forestry 331	3 Credits
Forest Resource Economics 431	3 Credits
Forest Management 342	4 Credits
Advanced Silviculture 432	3 Credits

**Methods Cluster (choose 2 courses):**

Recreation Resource Management 232	3 Credits
Advanced GIS Techniques 335 or GIS Applications 435	3 Credits
Dispute Management 331	3 Credits
Land Use Planning 331	3 Credits
Biometrics 432	3 Credits
Environmental Simulation Modeling 431	3 Credits
Computer Applications in Science 335	3 Credits
Risk Management and Liability 331	3 Credits
Forestry Externship 330	3 Credits

**Ecology Cluster (choose 1 course):**

***Ecology 231***

**3 Credits**

**ACC Equivalent:  
BIO 205 General Ecology  
3 of 4 credits**

Conservation Biology 332	3 Credits
Landscape Ecology 332	3 Credits
Tropical Ecology 231/241	3-4 Credits
Understory and Ground Cover Flora 331	3 Credits
Watershed Management 341	4 Credits
Wetland Ecosystems & Management 432	3 Credits
Advanced Conservation Science 432	3 Credits
Forest Pest Management 431	3 Credits

**Total Ecological Forest Management Requirements**

**34-36 Credits**

**CONCENTRATION (3 of 5): FOREST OPERATIONS**

**Concentration Requirements:**

Sawmill Lecture 132	3 Credits
<b>Surveying 241</b>	<b>4 Credits</b>
New Paradigms in Forestry 331	3 Credits
Forest Resource Economics 431	3 Credits
Forest Management 342	4 Credits
Industrial Forestry Operations 331	3 Credits
Forest Products 431	3 Credits

**ACC equivalent:  
TEC 111 Surveying  
3 credits**

**Business Cluster (choose 2 courses):**

**Accounting Principles I 131**

**ACC equivalents:  
BUS 146 Financial  
3 Credits Accounting, 3 of 4 credits; or  
BUS 146 A&B Financial  
Accounting, 3 credits**

**Accounting Principles II 132**

**ACC equivalents: BUS  
Management Accounting  
4 credits**

**Introduction to Business 131**

**ACC equivalents:  
BUS 101 Introduction to  
Business 3 credits**

**Business Law 132**

**ACC equivalent: BUS 201  
Business Law 3 credits**

Developing a Business Plan 431	3 Credits
Entrepreneurship 232	3 Credits
Entrepreneurial Finance 331	3 Credits

**Human Resource Management 232**

**ACC equivalent:  
BUS 261 Principles of Human  
Resource Management  
3 credits**

Management - A Systems Approach 431	3 Credits
Management Effectiveness Through Strategic Planning 432	3 Credits

**Principles of Management 231**

**ACC equivalent:  
BUS 102 Principles of  
Management, 3 credits**

The Family Business 431	3 Credits
The Global Market 431	3 Credits
Risk Management and Liability 331	3 Credits

**Resource Management Cluster (choose 2 courses):**

Introduction to GIS 232	3 Credits
Recreation Resource Management 232	3 Credits
Lumber Manufacturing and Kiln Drying 242	4 Credits
Land Use Planning 331	3 Credits

Continued next page

**CONCENTRATION (3 of 5): FOREST OPERATIONS**  
**(Resource Management Cluster, continued)**

Dispute Management 331	3 Credits
Landscape Ecology 332	3 Credits
Environmental Law & Regulatory Process 332	3 Credits
Advanced Silviculture 432	3 Credits

Sustainable Development 432	3 Credits	
Watershed Management 341	4 Credits	
Forestry Externship 330	3 Credits	
<b>Total Forest Operations Requirements</b>		<b>33-37 Credits</b>

Other concentrations follow on next two pages.

**CONCENTRATION (4 of 5): RECREATION RESOURCE MANAGEMENT**

**Concentration Requirements:**

Introduction to Recreation 131	3 Credits
Recreation Resource Management 232	3 Credits
Design & Administration of Recreational Facilities 232	3 Credits
Introduction to GIS 232	3 Credits
Park Management 331	3 Credits
Forest Resource Economics 431 or Resource Economics 431	3 Credits
Solid Waste Management 431	3 Credits

**Recreation Cluster (choose 1 courses):**

Outdoor Recreation Leadership 132	3 Credits
Recreation Program Planning 231	3 Credits
Recreation Leadership and Maintenance 242	4 Credits
Winter Recreation 232	3 Credits
Expedition Planning 331	3 Credits
Facilities Management 332	3 Credits
Adventure Travel and Ecotourism 331	3 Credits
Visitor Management Services 332	3 Credits
Eco-Adventure Practicum 332	3 Credits
Grant Writing 431	3 Credits

**Resource Management Cluster (choose 2 courses):**

Advanced GIS Techniques 335 or GIS Applications 435	3 Credits
Arboriculture 142	3 Credits
Environmental Resource Analysis 332	3 Credits
Interpreting the Environment 132	3 Credits
Land Use Planning 331	3 Credits
Dispute Management 331	3 Credits
New Paradigms in Forestry 331	3 Credits
Environmental Law & Regulatory Process 332	3 Credits
Risk Management and Liability 331	3 Credits
Wilderness Management 331	3 Credits
Sustainable Development 432	3 Credits
Forestry Externship 330	3 Credits

**Total Recreation Resource Management Requirements**

**33-37 Credits**

**CONCENTRATION (5 of 5): VEGETATION MANAGEMENT**

**Concentration Requirements:**

Insects and Diseases of Trees 131	3 Credits
Landscape Fundamentals and Interpretation 121	2 Credits
Arboriculture 142	4 Credits
Arboriculture 232	3 Credits
Forest Soils 231	3 Credits
Introduction to GIS 232	3 Credits
Plant Physiology 331	3 Credits
Special Problems in Urban Tree Management 222	2 Credits
Utility Vegetation Management 432	3 Credits

**Business Cluster (choose 2 courses):**

<i>Accounting Principles I 131</i>	<b>3 Credits</b>	<b>ACC equivalents: BUS 146 Financial Accounting, 3 of 4 credits; or BUS 146 A&amp;B Financial Accounting, 3 credits</b>
<i>Accounting Principles II 132</i>	<b>3 Credits</b>	<b>ACC equivalents: BUS Management Accounting 4 credits</b>
<i>Introduction to Business 131</i>	<b>3 Credits</b>	<b>ACC equivalents: BUS 101 Introduction to Business 3 credits</b>
<i>Business Law 132</i>	<b>3 Credits</b>	<b>ACC equivalent: BUS 201 Business Law 3 credits</b>
Developing a Business Plan 431	3 Credits	
Entrepreneurship 232	3 Credits	
Entrepreneurial Finance 331	3 Credits	
<i>Human Resource Management 232</i>	<b>3 Credits</b>	<b>ACC equivalent: BUS 261 Principles of Human Resource Management 3 credits</b>
Management - A Systems Approach 431	3 Credits	
Management Effectiveness Through Strategic Planning 432	3 Credits	
<i>Principles of Management 231</i>	<b>3 Credits</b>	<b>ACC equivalent: BUS 102 Principles of Management, 3 credits</b>
The Family Business 431	3 Credits	
The Global Market 431	3 Credits	
Risk Management and Liability 331	3 Credits	

**Vegetation Management Cluster (choose 2 courses):**

Advanced GIS Techniques 335 or GIS Applications 435	3 Credits
Ornamental Dendrology 331	3 Credits
Understory and Ground Cover Flora 331	3 Credits
Plant Ecology and Systematics 331	3 Credits
Forest Pest Management 431	3 Credits
Landscape Ecology 432	3 Credits
Forestry Externship 330	3 Credits

**Total Vegetation Management Requirements**

**38 Credits**