



PAUL SMITH'S COLLEGE

Student Academic Planning Guide

Your tool to make the most of your Paul Smith's College academic experience

Forestry B.S.

Offering concentrations in

- Ecological Forest Management**
- Forest Operations**
- Forest Biology**

and the

Forest Technology A.A.S.

Date of entry into the program: **Fall 2011 or after**

If you change programs, your date of entry to the program may change depending on the date your program change becomes effective.

It is the responsibility of each student to monitor his or her academic progress at Paul Smith's College. The student is expected to know the graduation requirements pertinent to his or her program, to be cognizant of his or her grade point average, to make appropriate elective course selections, and to add/drop courses to best facilitate attainment of his or her educational goals. To assist in making these important decisions, the College provides each student with an Academic Advisor. Advice and information are also available to each student from the Deans and the Office of the Registrar. While these sources should provide guidance, ultimately the student will be held accountable for all decisions. The Office of Registrar is the final authority on determining student progress.

Guide last revised October 2016

Paul Smith's College Philosophy of Education

The Paul Smith's College community provides a dynamic learning environment that encourages students to be actively engaged in their learning experience by fostering social, professional, and intellectual growth. The College's comprehensive educational approach offers the integration of traditional and experiential learning to encourage discovery, discipline and creativity. Through coursework in classrooms, laboratories, and program-specific fieldwork, Paul Smith's students gain knowledge and develop skills to prepare them for rewarding careers and life-long learning.

The Adirondack Park provides a unique natural, social, economic and political model for exploring the often-complex relationships between society and the environment. Paul Smith's College students, however, are also encouraged to extend their studies and their understanding of natural resources and the human condition outside of the Adirondack Park, including overseas through numerous study abroad opportunities.

Paul Smith's College is committed to promoting and practicing the principles of sustainable resource and campus management, and encouraging environmental awareness. Students' participation in a broad range of recreational, cultural, student life and community service activities encourages both individual and community growth.

Forestry Program Mission

Forestry education at Paul Smith's College prepares students for careers in forest science and management in a supportive, student-centered learning environment that emphasizes the connection between theoretical and experiential learning and encourages curiosity, critical thinking, and personal development.

Forestry Program Educational Goals

The Society of American Foresters (SAF), the national scientific and educational organization representing the forestry profession in the United States, defines forestry as: “The profession embracing the science, art, and practice of creating, managing, using, and conserving forests and associated resources for human benefit and in a sustainable manner to meet desired goals, needs, and values. The broad field of forestry consists of those biological, quantitative, managerial, and social sciences that are applied to forest management and conservation including such specialized fields as agro-forestry, urban forestry, industrial forestry, non-industrial forestry, and wilderness and recreation forestry.” (Helms, 1998)

In essence, forestry may be described as *the science dedicated to describing and understanding society’s relationship to forests*. This notion is reflected in our forestry curricula in courses ranging from silviculture to forest policy and mensuration to forest economics. Therefore, the goal of the Forestry B.S. degree is to develop students with an understanding of society fulfilled through a foundation in the liberal arts; and a broad knowledge of forest science and specific forestry practices and technical skills that will be of direct and immediate utility to our graduates. In addition, to become productive citizens and advance to positions in natural resource stewardship and leadership, the curriculum develops critical skills and knowledge such as written and oral communication, quantitative problem solving, and critical thinking. The Forest Technology (A.A.S.) degree emphasizes the skills and knowledge needed to work at the woodlot level to plan and manage harvesting operations and develop and implement silvicultural prescriptions.

Paul Smith’s College Forest Technology (A.A.S.) students will be able to:

- Identify the ecological and biophysical characteristics of forests;
- Measure and map land and forest resources and watersheds;
- Demonstrate forestry field skills and practices using forestry-related technology and equipment;
- Collect and interpret forest inventory and natural resources data, both spatially and non-spatially;
- Explain the biophysical and socio-political contexts in which forestry is practiced;
- Systematically gather data, synthesize information, and test hypotheses related to forest science to develop woodlot management strategies;
- Communicate and conduct oneself in a professional manner.

In addition to the A.A.S. objectives, Paul Smith’s College Forestry B.S. graduates will be able to:

- Analyze and synthesize the ecological and biophysical underpinnings of Forests;
- Analyze forestry production cycles;
- Analyze forest inventory and natural resources data, both spatially and non-spatially;
- Develop and express informed perspectives and opinions on the biophysical and sociopolitical contexts in which forestry is practiced;
- Integrate forestry knowledge and experience to develop forestry-related arguments and plans that reflect an appreciation of the diverse uses and values associated with forest resource and their sustainable management.

Forestry B.S. Concentrations

Depending on your goals, the four-year Forestry B.S. is designed to prepare students for careers in the broad and diverse field of forestry, represented by the following Forestry B.S. concentrations:

- **Ecological Forest Management (FEFM):** The management of public and private forests to meet diverse landowner objectives, including forest management planning and multiple-use forest management.
- **Forest Operations (FFOP):** The establishment, development, and sustainable harvesting of public and private forestlands, including timber procurement and diverse wood products markets.
- **Forest Biology (FBIO):** Graduate-school preparation in forest biology and ecology, including forest genetics and tree improvement.

Concentrations are designed for fluid movement among concentrations for the first 3-4 semesters. So if you are unsure of which concentration is best for you, you will have ample opportunity to learn and experience forestry in your first few semesters so that you can make the right choice.

General Education for the B.S. Program

Paul Smith's College takes a unique approach to general education that gives students the opportunity to achieve common educational goals as part of their major course requirements rather than through a separate distribution list. The Forestry program integrates achievement of these goals into a variety of courses. These courses may be different in each of the concentration areas offered in the program. The program also gives you the opportunity to choose courses of interest to you that also introduce or reinforce the structure of these concepts. (See the checklist below)

The curriculum is designed to ensure that when students graduate from Paul Smith's College they will not only be able to demonstrate program goals, they will also have the competence and skills necessary to become productive citizens in today's world. These competencies and skills have been defined by the Integrated General Education (IGE) program as the ability to demonstrate:

Analytical Reasoning and Scientific Inquiry (AR), generate meaning by using appropriate research methodologies to collect, analyze, evaluate and synthesize data.

Quantitative Problem Solving (QP), apply quantitative and mathematical methods to develop potential solutions to real-world problems.

Written Communication (WC), communicate organized and informed ideas clearly and persuasively to diverse audiences in writing.

Social and Cultural Engagement (SC), collaborate, interact and empathize with individuals and groups who represent diverse cultures, and contemporary and historic perspectives.

Responsibility and Expression (RE), use a variety of modes and media, to creatively express an informed point of view regarding human experience, cultures, values, and choices in a manner appropriate to audience and context.

General Education - Foundation and Reinforcing Levels

Area of Competency	Course(s)
<u>Analytical Reasoning/Scientific Inquiry (AR)</u>	
<input checked="" type="checkbox"/> Foundation	BIO 101 General Biology and FOR 110 Dendrology
<input checked="" type="checkbox"/> Reinforcing	FOR 241 Forest Mensuration II
<u>Quantitative Problem Solving (QP)</u>	
<input checked="" type="checkbox"/> Foundation	MAT 125 Algebra
<input checked="" type="checkbox"/> Reinforcing	MAT 210 Statistics
<u>Written Communication (WC)</u>	
<input checked="" type="checkbox"/> Foundation	ENG 101 English Composition I
<input type="checkbox"/> Reinforcing	<i>Select from General Education Course Listings</i>
<u>Social-Cultural Engagement (SC)</u>	
<input type="checkbox"/> Foundation	<i>Select from General Education Course Listings</i>
<input checked="" type="checkbox"/> Reinforcing	ECN 101 Macroeconomics or ECN 102 Microeconomics
<u>Responsibility & Expression (RE)</u>	
<input checked="" type="checkbox"/> Foundation	FYS 101 First Year Seminar
<input type="checkbox"/> Reinforcing	<i>Select from General Education Course Listings</i>

General Education - Integrated Level

At the upper division level (300/400) these concepts have been integrated into the curriculum differently in each concentration area.

300/400-level required courses for all Forestry B.S. concentrations:

- FOR 310 Forest Ecology (AR)
- FOR 330 Forest Soils (AR)
- FOR 340 Forest Management (WC)
- FOR 350 Forest Policy (RE, SC, WC)
- NRS 340 Watershed Management (AR, QP)

Additionally, for FEFM and FFOP:

- NRS 410 Natural Resource Economics (AR, QP)

Degree Requirements

This Planning Guide can help you track your progress toward your degree. Every effort is made to ensure its accuracy but it is not the official listing of the degree requirements for your program. The official listing of degree requirements can be found in the college catalog in effect at the time you begin your program. Your official degree plan sheet is created specifically for you and maintained in the Registrar's Office. If you have any questions about progress toward completion of your academic program, please request a copy of your plan sheet from the Registrar's Office and go over it carefully with your advisor. When you are approaching graduation, you may also request an official degree audit from the Registrar's Office.

We are here to help you, but it is ultimately your responsibility as a student to know your own graduation requirements.

To graduate with a B.S. in Forestry students are required to:

1. Satisfactorily (pass) at least 121 credit hours which must include:
 - a. 60 hours of Liberal Arts and Science (LAS) courses and,
 - b. 40 hours of Upper Division (UD) credits (300/400 level). No more than half of the upper level courses required may be transferred in for credit;
 - c. completion of all general education requirements (IGE)
2. Have a cumulative GPA of at least 2.00;
3. Have fulfilled the residency requirements;
4. Satisfactorily (pass) the program required courses (MAJ). The official list of courses can only be found in the college catalog in place when you entered the program and on the plan sheet maintained by the Office of the Registrar. The following list of prescribed course has been provided by the faculty in your program to assist you in your planning process. Please be advised not every course is offered every semester or even every year.
5. **Be prepared!** Paul Smith's College prides itself on its experiential, student-centered approach to learning. In forestry, this means field work in all sorts of conditions: snow, sleet, rain, cold, heat, wind. How you dress for field labs, therefore, is critical to enhancing your learning experience. To get started you will need the following clothing and equipment:
 - Hard hat, face protection, hearing protection
 - Boots with safety tips
 - Polypropylene/wool clothing for cold-wet weather
 - Silva Ranger (or equivalent) hand compass calibrated in quadrants, with adjustment for declination.
 - Other course-specific equipment may be required.

Forestry B.S. Required Courses

Name of course	Credits	Semester course will be taken	If a substitution is made identify the course used ¹
<input type="checkbox"/> BIO 101 Biology I	4	Fall (F)	
<input type="checkbox"/> CHM 141 Chemistry I	4	F	
<input type="checkbox"/> ECN 101 Macroeconomics or ECN 102 Microeconomics	3		
<input type="checkbox"/> ENG 101 English Composition I	3		
<input type="checkbox"/> FOR 101 Intro to Forestry	3		
<input type="checkbox"/> FOR 110 Dendrology	3		
<input type="checkbox"/> FOR 206 Forest Production Processes	2	Summer	
<input type="checkbox"/> FOR 231 Forest Health	3	F	
<input type="checkbox"/> FOR 240 Forest Mensuration I	2	Summer	
<input type="checkbox"/> FOR 241 Forest Mensuration II	4	F	
<input type="checkbox"/> FOR 260 Silviculture	3	Spring (S)	
<input type="checkbox"/> FOR 310 Forest Ecology	3	S	
<input type="checkbox"/> FOR 330 Forest Soils	3	F	
<input type="checkbox"/> FOR 340 Forest Management	4	S	
<input type="checkbox"/> FOR 350 Forest Policy	3	S	
<input type="checkbox"/> FOR 420 Advanced Silviculture	3	F	
<input type="checkbox"/> FWS 105 Intro. to Wildlife Mgt.	3	S	
<input type="checkbox"/> FYS 101 First Year Seminar	3		
<input type="checkbox"/> GIS 230 Geospatial Technologies	3	S	
<input type="checkbox"/> MAT 125 Algebra	3		
<input type="checkbox"/> MAT 210 Statistics	3		
<input type="checkbox"/> NRS 340 Watershed Management	3	S	
<input type="checkbox"/> SRV 201 Field Surveying I	2	Summer	
<input type="checkbox"/> Capstone Experience*	4		
Total prescribed core course credits	74		

***Capstone** - The Paul Smith's College capstone experience allows students to finalize their Paul Smith's education by giving students the opportunity to demonstrate mastery of the general education core and programmatic learning objectives. Students apply skills, methodologies and knowledge learned during their courses of study, building on this undergraduate learning experience as they evaluate their readiness for the next stage in their professional development.

¹ The student will still be responsible for other expectations (such as LAS, IGE, or UD requirements) that the original course may meet.

Forestry B.S. Concentration Required Courses

Ecological Forest Management (FEFM) concentration:

Name of course	Credits	Semester course will be taken	If a substitution is made identify the course used
<input type="checkbox"/> BIO 210 General Ecology	4		
<input type="checkbox"/> FOR 235 Timber Harvesting	4	F	
<input type="checkbox"/> NRS 410 Natural Res Economics	3	F	
<input type="checkbox"/> SRV 240 Field Surveying II	4	F	
Total concentration course credits	15		

Forest Operations (FFOP) concentration:

Name of course	Credits	Semester course will be taken	If a substitution is made identify the course used
<input type="checkbox"/> ACC 101 Financial Accounting	3		
<input type="checkbox"/> FOR 150 Wood Properties	3	S	
<input type="checkbox"/> FOR 235 Timber Harvesting	4	F	
<input type="checkbox"/> FOR 400 Forest Products	3		
<input type="checkbox"/> NRS 410 Natural Res Economics	3	F	
<input type="checkbox"/> SRV 240 Field Surveying II	4	F	
Total concentration course credits	20		

Forest Biology (FBIO) concentration:

Name of course	Credits	Semester course will be taken	If a substitution is made identify the course used
<input type="checkbox"/> BIO 102 Biology II	4	S	
<input type="checkbox"/> BIO 204 Plant Biology	3		
<input type="checkbox"/> BIO 210 General Ecology	4		
<input type="checkbox"/> BIO 225 Genetics	3		
<input type="checkbox"/> CHM 142 Chemistry II	4	S	
<input type="checkbox"/> CHM 241 Organic Chemistry	4		
Biology Cluster* Choose 2 courses:			
<input type="checkbox"/>	3-4		
<input type="checkbox"/>	3-4		
Total concentration course credits	28-30		

***Biology Cluster**– Students are asked to complete 2 courses which meet the objectives of this cluster. Courses in this cluster reinforce and expand the study of forest biology and ecology. Courses include: Biochemistry, Bio Effects Env Toxins, Conservation Biology, Entomology, Herpetology, Ichthyology, Landscape Ecology, Mammology, Microbial Ecology, Ornithology, Paleoecology, Plant Physiology, Understory & Ground Cover Flora, Wetlands Ecosys & Mgt, Winter Ecology, Special Topics in BIO, ENV, CHM, FOR & NRS.

Sample Program Schedules

The following are suggested course rotations designed to meet the degree requirements for a B.S. in Forestry. MAJ courses are required in your Major. Courses defined as “open” indicate places in the curriculum where the student may choose alternate courses. Please note that alternative courses should meet any Liberal Arts and Science (LAS), Integrated General Education (IGE), or Upper Division (UD) requirements designated by the suggested course. This will ensure that all graduation requirements are met.

Integrated General Education (IGE) courses can be found through the Self Service Catalog by searching the codes indicated under the IGE column: Analytical Reasoning & Scientific Inquiry (AR) Quantitative Problem Solving (QP) Written Communication (WC) Social & Cultural Engagement (SC) Responsibility & Expression (RE)

Forest Technology A.A.S. (FORT) Suggested Schedule

Fall: Semester 1						Spring: Semester 2							
Course Number & Title	Open	LAS	MAJ	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	IGE	Prerequisite(s)		
ENG 101 English Composition I		3		WC-F		GIS 230 Geospatial Info Technologies			3	QP-R	MAT 125		
FOR 101 Introduction to Forestry			3			FORT Cluster Course			3				
FOR 110 Dendrology		3	3	AR-F		COM 101 Speech		3		RE-R			
FYS 101 First Year Seminar		3		RE-F		COM 210 Technical Communications		3		WC-R	WC-F		
MAT 125 Algebra		3		QP-F		Social Cultural - F		3		SC-F			
Summer: Forestry Camp													
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)							
FOR 206 Forest Production Processes			2			FOR 101, 110							
FOR 240 Forest Mensuration I			2			FOR 101, 110, GIS 230							
SRV 201 Field Surveying I			2			MAT 125							
Fall: Semester 3						Spring: Semester 4							
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
FOR 231 Forest Health			3				FOR 260 Silviculture			3			FOR 240
FOR 235 Timber Harvesting			4			FOR 101, 206	FOR 280 Woodlot Management			3		SC-R	FOR 101, 110
FOR 241 Forest Mensuration II			4		AR-R	FOR 240	FORT Cluster Course			3			
SRV 240 Field Surveying II			4			SRV 201	Elective	3					

FORT Cluster Courses: Arboriculture I, Draft Horse Mgt, Equip: Small Engines Ops & Maintenance (only 2 cr hrs), Financial Accounting, Intro to GIS, Intro to Rec & Leisure Services, Intro to Wildlife Management, Landscape Fund & Interp (only 2 cr hrs), Maple Sap & Syrup Prod, Wood Properties & Production Processes

Ecological Forest Management (FEFM) Suggested Schedule

Fall: Semester 1							Spring: Semester 2						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
ENG 101 English Composition I		3			WC-F		FWS 105 Intro to Wildlife Management			3			
FOR 101 Introduction to Forestry			3				GIS 230 Geospatial Info Technologies			3		QP-R	MAT 125
FOR 110 Dendrology		3	3		AR-F		COM 101 Speech		3			RE-R	
FYS 101 First Year Seminar		3			RE-F		COM 210 Technical Communications		3			WC-R	WC-F
MAT 125 Algebra		3			QP-F		Social Cultural - F		3			SC-F	
Summer: Forestry Camp													
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)							
FOR 206 Forest Production Processes			2			FOR 101, 110							
FOR 240 Forest Mensuration I			2			FOR 101, 110, GIS 230							
SRV 201 Field Surveying I			2			MAT 125							
Fall: Semester 3							Spring: Semester 4						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 101 Biology I		4			AR-F		ECN 101 Macroeconomics or ECN 102 Microeconomics		3			SC-R	
FOR 235 Timber Harvesting			4			FOR 101, 206	FOR 260 Silviculture			3			FOR 240
FOR 241 Forest Mensuration II			4		AR-R	FOR 240	MAT 210 Statistics		3			QP-R	MAT 125
SRV 240 Field Surveying II			4			SRV 201	LAS elective		3-4				
							Elective	3-4					
Fall: Semester 5							Spring: Semester 6						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 210 General Ecology		4			AR-R	BIO 101	FOR 310 Forest Ecology		3	3	3	AR-I	FOR 101, 110 or BIO 210
CHM 141 Chemistry I		4				MAT 125	FOR 340 Forest Management			4	4	WC-I	FOR 260
FOR 231 Forest Health			3				NRS 340 Watershed Management		3		3	AR-I QP-I	BIO 101
LAS elective - UD		3-4		3-4			FOR 350 Forest Policy			3	3	RE-I SC-I WC-I	NRS 101 or FOR 101
							Elective	3-4					
Fall: Semester 7							Spring: Semester 8						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
FOR 330 Forest Soils		3	3	3	AR-I	BIO 210 or FOR 310	Capstone Experience			4	4		
FOR 420 Advanced Silviculture			3	3		FOR 260	LAS elective - UD		3-4		3-4		
NRS 410 Natural Resource Economics		3	3	3	AR-I QP-I	ECN 101 or 102 or 200	Elective - UD	3-4			3-4		
Elective - UD	3-4			3-4			Elective - UD	3-4			3-4		

Forest Operations (FFOP) Suggested Schedule

Fall: Semester 1							Spring: Semester 2						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
ENG 101 English Composition I		3			WC-F		FWS 105 Intro to Wildlife Management			3			
FOR 101 Introduction to Forestry			3				GIS 230 Geospatial Info Technologies			3		QP-R	MAT 125
FOR 110 Dendrology		3	3		AR-F		COM 101 Speech		3			RE-R	
FYS 101 First Year Seminar		3			RE-F		COM 210 Technical Communications		3			WC-R	WC-F
MAT 125 Algebra		3			QP-F		Social Cultural - F		3			SC-F	
Summer: Forestry Camp													
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)							
FOR 206 Forest Production Processes			2			FOR 101, 110							
FOR 240 Forest Mensuration I			2			FOR 101, 110, GIS 230							
SRV 201 Field Surveying I			2			MAT 125							
Fall: Semester 3							Spring: Semester 4						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 101 Biology I		4			AR-F		ECN 101 Macroeconomics or ECN 102 Microeconomics		3			SC-R	
FOR 235 Timber Harvesting			4			FOR 101, 206	FOR 150 Wood Properties			3			
FOR 241 Forest Mensuration II			4		AR-R	FOR 240	FOR 260 Silviculture			3			FOR 240
SRV 240 Field Surveying II			4			SRV 201	MAT 210 Statistics		3			QP-R	MAT 125
							LAS elective		3-4				
Fall: Semester 5							Spring: Semester 6						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
ACC 101 Financial Accounting			3				FOR 310 Forest Ecology		3	3	3	AR-I	FOR 101, 110 or BIO 210
CHM 141 Chemistry I		4				MAT 125	FOR 340 Forest Management			4	4	WC-I	FOR 260
FOR 231 Forest Health			3				NRS 340 Watershed Management		3		3	AR-I QP-I	BIO 101
LAS elective - UD		3-4		3-4			FOR 350 Forest Policy			3	3	RE-I SC-I WC-I	NRS 101 or FOR 101
LAS elective		3-4											
Fall: Semester 7							Spring: Semester 8						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
FOR 330 Forest Soils		3	3	3	AR-I	BIO 210 or FOR 310	Capstone Experience			4	4		
FOR 400 Forest Products			3	3		FOR 150, 235	LAS elective - UD		3-4		3-4		
FOR 420 Advanced Silviculture			3	3		FOR 260	Elective - UD	3-4			3-4		
NRS 410 Natural Resource Economics		3	3	3	AR-I QP-I	ECN 101 or 102 or 200	Elective - UD	3-4			3-4		

Forest Biology (FBIO) Suggested Schedule

Fall: Semester 1							Spring: Semester 2						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 101 Biology I		4			AR-F		BIO 102 Biology II		4			AR-F	
ENG 101 English Composition I		3			WC-F		FOR 110 Dendrology		3	3		AR-F	
FOR 101 Introduction to Forestry			3				FWS 105 Intro to Wildlife Management			3			
FYS 101 First Year Seminar		3			RE-F		GIS 230 Geospatial Info Technologies			3		QP-R	MAT 125
MAT 125 Algebra		3			QP-F	Accuplacer	COM 210 Technical Communications		3			WC-R	WC-F
Summer: Forestry Camp													
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)							
FOR 206 Forest Production Processes			2			FOR 101, 110							
FOR 240 Forest Mensuration I			2			FOR 101, 110, GIS 230							
SRV 201 Field Surveying I			2			MAT 125							
Fall: Semester 3							Spring: Semester 4						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 210 General Ecology		4			AR-R	BIO 101	BIO 204 Plant Biology		3				BIO 101, 102
CHM 141 Chemistry I		4				MAT 125	CHM 142 Chemistry II		4			QP-R	CHM 141
FOR 241 Forest Mensuration II			4		AR-R	FOR 240	FOR 260 Silviculture			3			FOR 240
ECN 101 Macroeconomics or ECN 102 Microeconomics		3			SC-R		MAT 210 Statistics		3			QP-R	MAT 125
							Social Cultural - F		3			SC-F	
Fall: Semester 5							Spring: Semester 6						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
BIO 225 Genetics		3				BIO 102, CHM142	FOR 310 Forest Ecology		3	3	3	AR-I	FOR 101, 110 or BIO 210
CHM 241 Organic Chemistry I		4				CHM 141, 142	FOR 340 Forest Management			4	4	WC-I	FOR 260
FOR 231 Forest Health			3				FOR 461 Capstone Planning			1	1		
COM 101 Speech		3			RE-R		NRS 340 Watershed Management		3		3	AR-I QP-I	BIO 101
Elective - UD	3-4			3-4			FOR 350 Forest Policy			3	3	RE-I SC-I WC-I	NRS 101 or FOR 101
Fall: Semester 7							Spring: Semester 8						
Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)	Course Number & Title	Open	LAS	MAJ	UD	IGE	Prerequisite(s)
FOR 330 Forest Soils		3	3	3	AR-I	BIO 210 or FOR 310	FOR 462 Capstone Project			3	3		FOR 461
FOR 420 Advanced Silviculture			3	3		FOR 260	Biology Cluster - UD		3-4		3-4		
Biology Cluster - UD		3-4		3-4			Elective - UD	3-4			3-4		
Elective - UD	3-4			3-4			Elective - UD	3-4			3-4		

Additional educational opportunities

- Many of our students choose to pursue a **Minor in Geographic Information Systems (GIS)** in addition to their degree. For Forestry B.S. students, four of the required six courses for the GIS Minor are built into the curriculum. In some cases, A.A.S. students can use their restricted and open electives to complete the requirements for the GIS Minor during their two-year degree program. Students should consult with faculty advisors to determine the best plan for achieving the GIS Minor.
- Paul Smith's offers a **Business Minor** that several of our Forestry B.S. students decide to pursue – often completing it along with their Forestry degree in four years. Again, if you are interested in the Business Minor, consult with your advisor to plan your curriculum to accommodate this option.
- The Forestry Program is a **Game of Logging Training Organization**. During the course of their program, most of our Forestry students obtain several levels of Game of Logging safety, production, and logistics training and certification during the course of their curriculum.

Resources include:



- Certified organic 2500 tap state-of-the-art sugaring operation
- Modern and automated sawmill
- John Dillon Park – an accessible outdoor recreation experience managed by Paul Smith's College
- Modern technology and software for mensuration, surveying, GIS, silviculture, forest operations and forest management
- Over 14,000 acres of forest and wetlands, owned and sustainably managed by Paul Smith's College