

# Transilvania University of Braşov, Romania

## Study program: Forest Engineering

Faculty:	Silviculture and Forest Engineering
Study period	4 years (bachelor)
Academic year structure	2 semesters (14 weeks per semester)
Examination sessions (two)	Winter session (January/February) Summer session (June)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

### 1<sup>st</sup> Year

No. crt.	Course	Code	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Mathematics	MATE	2	2			5					
02	Biostatistics	BIOS	2		2		4					
03	Technical Drawing and Cartography	DTC	2		2		4					
04	Forest Informatics	INFF	2		2		5					
05	Biochemistry	BIOCH	2		2		4					
06	Soil Science with an Introduction to Geology and Geomorphology	PEGG	2		2		5					
07	Academic Writing	SAC	1				1					
08	Forest Soils and Sites	SSFOR						2		3		5
09	Forest Meteorology and Climatology	METEO						2		2		4
10	Botany	BOT						2		2		4
11	Topography-Geodesy I	TOPO1						2		2		4
12	Dendrology I	DEN1						2		2		5
13	Genetics	GENE						2		1		4
14	Practical Training I	PDS1						60 hours				2
14	English Language	LES1/LES2	1	1			2	1	1			2
	French Language	LFS1/LFS2										
	German language	LGS1/LGS2										
	Spanish Language	LSS1/LSS2										
15	Physical Training and Sports	EFS1/EFS2		1			1		1			1

### 2<sup>nd</sup> Year

No. crt.	Course	Code	3 <sup>rd</sup> Semester					4 <sup>th</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Game Management	FAUNA	3		3		6					
02	Forest Constructions	CONF	2			2	5					
03	Topography-Geodesy II	TOPO2	1		1		3					
04	GIS	GIS	1		3		5					
05	Dendrology II	DEN2	2		2		5					
06	Forest Entomology	ENTO						2		2		4
07	Afforestation I: Forest seed. Forest Nursery Production	IMP1						2		2		4

08	Dendrometry I	DENDR1						2		2		4
09	Forest Ecology	ECOL						2		2		4
10	Forest Products I	PROD1						2		2		4
11	Silviculture I	SILV1						2		2		5
12	Practical Training II	PDS2						90 hours				3
13	Introduction to Machines	CGM	2		2			4				
	Mechanics and Strength of Materials	MRMS		2								
14	English Language	LES3/LES4	1	1			2	1	1			2
	French Language	LFS3/LFS4										
	German language	LGS3/LGS4										
	Spanish Language	LSS3/LSS4										
15	Physical Training and Sports	EFS3/EFS4		1			1		1			1

### 3<sup>rd</sup> Year

No. crt.	Course	Code	5 <sup>th</sup> Semester					6 <sup>th</sup> Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Forest Management Planning I	AMEN1	2		2		4						
02	Silviculture II	SILV2	2		1	1	5						
03	Forest Products II	PROD2	1		2		4						
04	Afforestation II: Afforestation and Ecological Restoration	IMP2	2		1	1	4						
05	Timber Harvesting Technology I	TEL1						2		2			4
06	Forest Management Planning II	AMEN2						2			2		5
07	Forest Bridges and Culverts	PODF						2			2		4
08	Cable Yarders I	FUNIC1						2		2			4
09	Forest Roads I	DRUM1						2		1			4
10	Forest Economy and Management	MECFOR						2	2				4
11	Practical Training III	PSS3						90 hours				3	
12	Computer Aided Design in Forest Engineering	DISA	1		2		4						
	Dendrometry II	DENDR2											
13	Machines for Forest Constructions	MACO	2		2		5						
	Equipment for Forest Constructions	UTICO											
14	Electrical Applications in Forest Engineering	UEF	2		2		4						
	Automation in Forest Operations	EMAUS											
15	Forest Cadastre	CAD						1		1		2	
	Forest Railways	CFFOR											

### 4<sup>th</sup> Year

No. crt.	Course	Code	7 <sup>th</sup> Semester					8 <sup>th</sup> Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Timber Harvesting Technology II	TEL2	2			2	5						
02	Forest Roads II	DRUM2	2		1	2	5						
03	Timber Harvesting Mechanization	MEF	4		4		6						
04	Wood Processing	PRELEF	2		2		5						
05	Cable Yarders II	FUNIC2	2			1	4						
06	Management of Timber Harvesting, Transportation and Construction Enterprises	MAFE	1		1		3						
07	Work Science and Ergonomics	ERGOS						2		2			5
08	Law and Forest Legislation	DLF						2		2			4

09	Marketing of Forest Products	COMPF					1		2		3
10	Photogrammetry	FOTO					1		1		3
11	Data Collection for Thesis	PPD					60 hours			3	
12	Data Analysis and Thesis Writting	EPD					60 hours			3	
13	Modelling Applications in Forestry	MODS	1		1		2				
	Xylology	XILO									
14	Forest Constructions and Interior Design	COLAI						2		1	3
	Introduction to Maintenance of Forestry Equipement	BARUF									
15	Forest Management	ADMIN						1		1	3
	Alternative Energy Sources in Forestry	SUAVE									
16	Communication and Public Relations	COMUNI						1	1		3
	Accounting	CONTA									