

General Information	
Academic subject	Agriculture and Forest Hydraulics, with elements of Hydrogeology (sub-course within the integrated course of Water Resources)
Degree course	TUGEST
Curriculum	
ECTS credits	6 CFU
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Fabio Milillo	fabio.milillo@uniba.it	AGR/08

ECTS credits details	Field	SSD	Credits
Basic teaching activities	Agriculture and Forest Engineering	AGR/08	6

Class schedule	
Period	I ^ semester
Year	second
Type of class	Lecture- workshops

Time management	
Hours	150
In-class study hours	60
Out-of-class study hours	90

Academic calendar	
Class begins	October 2, 2017
Class ends	January 26, 2018

Syllabus	
Prerequisites/requirements	Mathematics, Physics (Statics, Kinematics, Dynamics, Energy)
Expected learning outcomes	<p><i>Knowledge and understanding</i>  Fundamental laws of Hydrostatics and Hydrodynamics, with a focus on rural and forest environment</p> <p><i>Applying knowledge and understanding</i>  Hydraulic design and verification of the basic small watershed works (check dams, channels)</p> <p><i>Making informed judgements and choices</i>  Understanding the environmental and socio-economical frame and proposing consequent hydraulic interventions</p> <p><i>Communicating knowledge and understanding</i>  Ability to expose and comment the topics clearly and rigorously  Ability to interact with a broad spectrum of interlocutors</p> <p><i>Capacities to continue learning</i>  Ability to acquire knowledge and spend it at work, as well as in continuous training  Ability to select reliable sources of scientific information</p>
Contents	<ul style="list-style-type: none"> <li>• Statics, kinematics, energy in liquids.</li> <li>• Design and verification of channels and check dams.</li> <li>• Fundamentals of hydrogeology.</li> </ul>

Course program	
Bibliography	<ul style="list-style-type: none"> <li>• Classes videos (available at <a href="https://www.youtube.com/user/mlfb0lag/playlists">https://www.youtube.com/user/mlfb0lag/playlists</a>)</li> <li>• Chadwick and Morfett (1999) Hydraulics in civil and Environmental Engineering. E &amp; FN SPON.</li> </ul>
Notes	
Teaching methods	Most topics will be taught with blackboard and crayon. When necessary, slides and videos will be used.
Assessment methods	Oral. If the student passes the midterm test, the score is the average between midterm and final scores. Examinations can be carried out in English or in French.
Evaluation criteria	The examination commission verifies to what extent the student reached the above mentioned expected learning outcomes.
Further information	