

**CORSO DI LAUREA MAGISTRALE INTERNAZIONALE IN INNOVATION DEVELOPMENT IN AGRIFOOD SYSTEMS  
(IDEAS) A.A. 2023/2024 (coorte 2022/2023)**

**MANIFESTO DEGLI STUDI PER STUDENTI A TEMPO PIENO (FULL TIME)**

SSD	Attività didattica	CFU/ECTS	Ex	Accertamento	Valutazione
<b>I anno – I semestre</b>					
AGR07	Modern plant breeding strategies	9 (6L - 3Ex/Lab)	1	Or	V
	<b>I.C. Innovative and smart technologies in crop protection</b>				
AGR11	Innovative and advanced control strategies of plant feeders (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1	Or	V
AGR12	Smart technologies to manage plant pathogens (6 ECTS, 4L - 2Ex/Lab)				
AGR13	<b>I.C. Innovation in biomass and wastes management in agrifood systems</b>	-6	-	esonero	-
	Sustainable biomass management (6 ECTS, 4L - 2Ex/Lab)				
	Totale I sem	24	2		
<b>I anno - II semestre</b>					
AGR02	Advanced data analysis methods for sustainable agronomic and environmental management	6 (4L - 2Ex/Lab)	1	Or	V
AGR03	Fruit tree eco-physiology and strategies to cope with climate change	9 (6L - 3Ex/Lab)	1	Or	V
	<b>I.C. Food and food components from agrifood of by-products and novel sources</b>				
AGR15	Technology management of by-products for food production (3 ECTS, 2L - 1Ex/Lab)	6 (2L - 1Ex/Lab)	1	Or	V
AGR16	Food bioprocesses from by-products and novel sources (3 ECTS, 2L - 1Ex/Lab)				
AGR01	Circular economy and policies	6 (4L - 2Ex/Lab)	1	Or	V
AGR13	<b>I.C. Innovation in biomass and wastes management in agrifood systems</b>	9 (2L - 1Ex/Lab)	1	Or	V
	Biomass and wastes characterization (3 ECTS, 2L - 1Ex/Lab)				
	Totale II sem	27	5		
	<b>Total I year</b>	<b>54</b>	<b>7</b>		
<b>II anno - I semestre</b>					
	<b>I.C. Sustainable field cropping systems for bio-based sectors and bio-energy</b>				
AGR02	Non-food and industrial energy cropping systems (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V
AGR09	Mechanization and monitoring of cropping systems (3 ECTS, 2L - 1Ex/Lab)				
AGR10	Sustainable non-food and industrial energy supply chains and processing systems (3 ECTS, 2L - 1Ex/Lab)				
<b>Gli studenti devono scegliere due attività didattiche (totale 18 ECTS) fra le seguenti opzioni</b>					
	<b>I.C. Sustainable innovative technologies improving soil, microorganism and plant interactions (Option 1)</b>				
AGR12	Sustainable innovative approach in managing soil-borne pathogens (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V

AGRI13	Sustainable clean soil strategies (3 ECTS, 2L - 1Ex/Lab)				
AGRI16	Soil microbiota management improving agricultural systems (3 ECTS, 2L - 1Ex/Lab)				
	<b>I.C. Innovation in managing fresh commodities losses (Option 2)</b>				
AGRI12	Innovative technologies in managing postharvest diseases (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V
AGRI16	Biotechnologies for shelf life improvement (3 ECTS, 2L - 1Ex/Lab)				
AGRI15	Innovative active packaging (3 ECTS, 2L - 1Ex/Lab)				
	<b>I.C. Eco-friendly technologies for biomass recycling (Option 3)</b>				
AGRI11	Eco-friendly insect mediated biomass recycling (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V
AGRI13	Waste biorefinery (3 ECTS, 2L - 1Ex/Lab)				
ING IND22	Biomaterials from agrifood wastes (3 ECTS, 2L - 1Ex/Lab)				
	<b>I.C. Biodiversity mainstreaming in crop production (Option 4)</b>				
AGR07	Genetic approaches for resilience to climate change (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V
AGRI11	Biodiversity and ecosystem services in agriculture (3 ECTS, 2L - 1Ex/Lab)				
AGRI12	Host-pathogen interactions and microorganism diversity (3 ECTS, 2L - 1Ex/Lab)				
	<b>I.C. Innovation in fruit and vegetable crops (Option 5)</b>				
AGR03	Sub-tropical and semi-arid fruit crops (6 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1*	Or	V
AGR04	Innovative and sustainable vegetable cultivation (3 ECTS, 2L - 1Ex/Lab)				
	<b>I.C. Innovative thinking in bioeconomy scenarios (Option 6)</b>				
CHIM12	Innovation, creative thinking and sustainability (3 ECTS, 2L - 1Ex/Lab)	9 (6L - 3Ex/Lab)	1	Or	V
SPS10	Social innovation in local community and enterprises (3 ECTS, 2L - 1Ex/Lab)				
SECS-P08	Innovative enterprises management (3 ECTS, 2L - 1Ex/Lab)				
	Attività Didattica a scelta libero dello studente	9	1**		
Totale I sem		36			
<b>II anno - II semestre</b>					
	Tirocinio finalizzato alla preparazione della tesi di laurea magistrale	7			
	Altre conoscenze utili per l'ingresso nel mondo del lavoro	3			
	Tesi di laurea ed esame finale	20			
	Totale II sem	30			
	<b>Totale</b>	<b>120</b>	<b>11</b>		

SSD: Settore Scientifico Disciplinare;

I.C.=corso integrato, 1\*: gli studenti devono scegliere due attività didattiche fra le sei attività proposte come opzioni (1-6); 1\*\*= attività didattica a scelta libera dello studente così come dettagliato nel regolamento