

# BSc in Plant & AgriBiosciences



## New degree pathway within the School of Natural Science

A new degree pathway on Plant & AgriBiosciences (PAB) is being added in 2016 to the undenominated BSc in NUI Galway.

In Sept 2016, existing BSc students can enter this pathway in year 2, 3 or 4 of the PAB pathway.

Plant and agricultural biosciences innovations have a critical role to play in ensuring future food security and sustainable development through discoveries in Ireland and internationally. The PAB pathway has a major focus on preparing students for careers in the vibrant plant and agribiosciences sector.

## Career prospects

The PAB pathway will strategically position your career for emerging 'green-economy' job opportunities across agri-biosciences, biotechnology, breeding, genetics, bio-chemistry, food, nutrition, bioenergy, agriculture, pharmaceuticals, education, biobusiness, sustainable development, clean-tech, regulatory affairs & government policy sectors.

The PAB pathway is linked to NUI Galway's Plant & AgriBiosciences Research Centre (PABC) which consists of over 30 research groups and research partners engaged in advanced plant and agribiosciences innovation ([www.plantagbiosciences.org](http://www.plantagbiosciences.org)).

For students planning to continue with postgraduate studies, the PAB pathway will provide students with the ideal knowledge to enter Masters degree programs (e.g. MSc in Climate Change, Agriculture and Food Security or Masters in AgriBiosciences, <https://ccafs.cgiar.org/about/careers-and-calls/msc-climate-change-agriculture-and-fodd-security>) or PhD degree programs (e.g. the NUI Galway Structured PhD in Plant & AgriBiosciences).

For students who will seek employment directly after completion of their BSc in Plant & AgriBiosciences, training will be provided in identification of career opportunities in the exciting agri-biosciences and agri-food sector in Ireland and internationally. In addition, the AgriBiosciences Research Internship Project will be a platform to facilitate the integration into the agri-biosciences sector.

# BSc in Plant & AgriBiosciences

Plant Genetics & Systems Biology (PAB4102)

Plant & Agri-Biotechnologies (PAB4104)

PAB Research Project (PAB4101)

+20 ECTS from other modules, e.g.:

Climate change, Plants & Agriculture (PAB4103)

Current topics in Plant & AgriBiosciences (PAB4106)

AgriBiosciences Internship Project (PAB4105)

Global Change (EOS402)  
Molecular & Cellular Biology (BI449)  
etc.

4<sup>th</sup> Year

Soil Science (PAB3101)

Plant & Agricultural Genetics (PAB3103)

+30 ECTS from other modules, e.g.:

AgriBiosciences for Sustainable Global Development (PAB3102)

Systems Biology of Plant-Environment Interactions (PAB3104)

Cell Biology (BI309)  
Human nutrition (BI318)  
Molecular Biology (BI319)  
Human Molecular Genetics (BI317)  
Environmental Microbiology (MI322)  
Food & Industrial Microbiology (MI323)

3<sup>rd</sup> Year

AgriBiosciences (PAB2101)

Molecular & Cellular Biology (BO201)

Evolution & Tree of Life (BO202)

Microbes & the Environment (MI204)

2<sup>nd</sup> Year

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