

## Appendix 1. Overview of certified NLT modules

Annex to: Michels & Eijkelhof, the development and implementation of an interdisciplinary STEM course for upper secondary schools.

The table below lists all NLT modules available on January 1, 2018. The modules are available in Dutch. Student manuals can be downloaded from: <http://betavak-nlt.nl/nl/p/modules/slo-modules/slo-vwo-modules/> (pre-university) and <http://betavak-nlt.nl/nl/p/modules/slo-modules/slo-havo-modules/> (pre-college). Modules with an \* are available in English as well and can be downloaded from: <http://betavak-nlt.nl/nl/p/english/modules/>

Most modules are either for pre-college or for pre-university. Some modules are available for both levels, meaning there is a module for pre-college and another module on the same topic for pre-university.

Subject or title of module	Pre-college	Pre-university
Air quality	X	
Artificial kidneys and membranes		X
Battle of genes		X
Bioinformatics		X
Biomedical technology		X
Biosensors		X
Biotechnology	X	
Blue energy		X
Brains and learning		X
Citius, altius, fortius		X
Climate change in the North Pole region		X
CO <sub>2</sub> -storage: useful or useless?		X
Complex numbers and complex circuits		X
Cosmic radiation		X
Digital technology	X	
Drinking water, how important		X
Driving and drinking	X	X
Dynamic earth *		X
Dynamic modelling	X	X
Earth's evolution		X
Eggs, from production to consumption	X	
Energy for greenhouse farming	X	
Energy island		X
Entropy		X
Experiments of former times		X
Food or fuel *		X
Forensic science	X	X
Glue and attach	X	
Heart diseases	X	X
Holography		X
Ice and climate		X
Interpreting data		X

Journey of the Beagle	X	
Knock out, mice in cancer research		X
Lab on a chip		X
Life of galaxies		X
Living in the International Space Station	X	
Logistics		X
Looking and seeing		X
Looking into the nano-world		X
Make the difference; On statistical significance	X	
Measuring galaxies		X
Medical imaging	X	
Medicine development		X
Molecular gastronomy *		X
Molecules of life *		X
Nuclear fusion		X
On HIV and Aids		X
Photosynthesis: fuel for live		X
Protein crystallography		X
Rising sea levels in a delta region	X	
Risk estimation		X
Quantum structure of matter		X
Robotics	X	X
Room for rivers: managing floodplains		X
Safety with GIS	X	
Satellites & earth observation		X
Sound design		X
Sport & science	X	
Summer in the city		X
Sustainable and affordable	X	
The living soil	X	
The MP3 player		X
The North Sea, more than just water		X
True or false?		X
Van Gogh's paintings	X	
Water purification systems	X	
What did you say?	X	
Zero-energy houses	X	
Zoonosis and public health	X	