

# Minors 2018-2020 catalogue Home

Title	Available for	Language	Level	Method	Theme
<a href="#">Aalto Nuclear Safety</a>	Students at schools of technology	English	Master		Advanced energy solutions and Materials and sustainable use of natural resources
<a href="#">Aaltonaut</a>	All Aalto students	English	Bachelor		Global business dynamics
<a href="#">Acoustics and Audio Technology</a>	All Aalto students	English	Master		Materials and sustainable use of natural resources
<a href="#">Advanced Energy Solutions Minor</a>	All Aalto students	English	Master		Advanced energy solutions
<a href="#">Analytics and Data Science</a>	All Aalto students	English	Master		ICT and digitalisation and Global business dynamics
<a href="#">Animation (en) / Animaatio (fi)</a>	All Aalto students	Finnish or English	Bachelor and Master		Art and design knowledge building
<a href="#">Arkkitehtuurin historia (fi) (kandidaattitaso) / Arkitekturhistorien (se) (kandidatnivå)</a>	All Aalto students	Finnish or Swedish	Bachelor		Art and design knowledge building
<a href="#">Arkkitehtuurin historia (maisteritaso) / Arkitekturhistoria (magisternivå)</a>	All Aalto students	Finnish and English	Master		Art and design knowledge building
<a href="#">Audiovisuaalinen kerronta ja dramaturgia</a>	All Aalto students	Finnish	Bachelor		Art and design knowledge building
<a href="#">Automaatio- ja systeemitekniikka</a>	Students at schools of technology	Finnish	Bachelor and Master		ICT and digitalisation
<a href="#">Bioinformaatioteknologia</a>	All Aalto students	Finnish	Bachelor and Master		Health and wellbeing

Bioinformatics and Digital Health	Students at schools of technology	English	Master	ICT and digitalisation and Health and wellbeing
Biomass Refining	All Aalto students	English	Master	Materials and sustainable use of natural resources
Biomedical Engineering	All Aalto students	English	Master	Health and Wellbeing
Biosensing and Bioelectronics	All Aalto students	English	Master	Health and wellbeing and Materials and sustainable use of natural resources
Biosystems and Biomaterials Engineering	All Aalto students	English	Master	Health and wellbeing
Biotechnology	All Aalto students	English	Master	Materials and sustainable use of natural resources and Health and wellbeing
Biotuotteet	Students at schools of technology	Finnish	Bachelor	Materials and sustainable use of natural resources
Building Technology	All Aalto students	English	Master	Human-centred living environments and Advanced energy solutions
CHEMARTS	All Aalto students	English	Bachelor and Master	Art and design knowledge building and Materials and sustainable use of natural resources
Chemical and Process Engineering	All Aalto students	English	Master	Materials and sustainable use of natural resources and ICT and digitalisation

Chemical Engineering	All Aalto students	English	Bachelor	Materials and sustainable use of natural resources and Advanced energy solutions
Chemistry	All Aalto students	English	Master	Materials and sustainable use of natural resources and Advanced energy solutions
Communications Engineering	All Aalto students	English	Master	ICT and digitalisation
Complex Systems	All Aalto students	English	Master	ICT and digitalisation and Health and wellbeing
Computation and Modelling in Engineering	All Aalto students	English	Bachelor	ICT and digitalisation
Computational Engineering	All Aalto students	English	Bachelor	ICT and digitalisation and Materials and sustainable use of natural resources
Computer science (en) / Tietotekniikka (su)	All Aalto students	Finnish or English	Bachelor	ICT and digitalisation
Computer Science (Master level)	All Aalto students	English	Master	ICT and digitalisation
Consumer Research	BIZ students only	English	Master	Global business dynamics
Control, Robotics and Autonomous Systems	All Aalto students	English	Master	ICT and digitalisation
Corporate Communication	All Aalto students	English	Master	Global business dynamics
Creative Sustainability	All Aalto students	English	Master	Materials and sustainable use of natural resources and Human-centred living environments

Creativity and Venturing	All Aalto students	English	Master	Global business dynamics
Data Science	All Aalto students	English	Bachelor	ICT and digitalisation and Mathematics and research methods
Digital Systems and Design	All Aalto students	English	Bachelor	ICT and digitalisation
Dokumentaarinen elokuva	ARTS students only	Finnish	Bachelor	Art and design knowledge building
Dynamic Visualization in New Media	All Aalto students	English	Master	Art and design knowledge building and ICT and digitalisation
Earth Observation	All Aalto students	English	Master	ICT and digitalisation and Materials and sustainable use of natural resources
Economics	BIZ students only	English	Master	Global business dynamics
Electrical Power and Energy Engineering	All Aalto students	English	Master	Advanced energy solutions
Elektroniikka ja sähkötekniikka, ELECin opiskelijat	ELEC students only	Finnish	Bachelor	ICT and digitalisation and Advanced energy solutions
Elektroniikka ja sähkötekniikka, kaikille Aallon koulujen opiskelijoille	CHEM, ENG, SCI students	Finnish	Bachelor	ICT and digitalisation and Advanced energy solutions
Elokuva- ja televisiotuotanto / Film and Television Production / Film och television produktion	All Aalto students	Finnish Swedish English	Bachelor and Master	Art and design knowledge building
Elokuvaleikkaus (fi) / Filmklipping (se)	ARTS students All Aalto students	Finnish	Bachelor	Art and design knowledge building

Elokuvan historia	All Aalto students	Finnish and English	Bachelor and Master	Art and design knowledge building
Energia- ja ympäristötekniikka (fi) / Energi- och miljöteknik (sv)	All Aalto students	Finnish	Bachelor	Materials and sustainable use of natural resources and Advanced energy solutions
Energiateknikka	ELEC, SCI students SIIRTYMÄSIVUAINE	Finnish	Bachelor	Advanced energy solutions
Energiatieteet	All Aalto students	Finnish	Bachelor	Advanced energy solutions and Materials and sustainable use of natural resources
Engineering Physics	All Aalto students	English	Master	Materials and sustainable use of natural resources and Advanced energy solutions
Entrepreneurial Leadership	All Aalto students	English	Master	Global business dynamics and ICT and digitalisation
Entrepreneurship and Innovation Management	All Aalto students	English	Master	Global business dynamics
Fashion Management	ARTS, BIZ students	English	Master	Art and design knowledge building and Global business dynamics
Fibre and Polymer Engineering	All Aalto students	English	Master	Materials and sustainable use of natural resources
Finance, for all Aalto degree students	All Aalto students	Finnish	Bachelor	Global business dynamics

Finance, for School of Business MSc students only	BIZ students only	English	Bachelor and Master	Global business dynamics
Financial Engineering	All Aalto students	English	Master	Global business dynamics
Functional Materials	All Aalto students	English	Master	Materials and sustainable use of natural resources
Game Design and Production	All Aalto students	English	Master	Art and design knowledge building and ICT and digitalisation
Games and Virtual Reality in Performing Arts (GVRIPA)	ARTS students only	English	Master	Art and design knowledge building and ICT and digitalisation
Geoengineering and Mineral Based Materials	All Aalto students	English	Master	Materials and sustainable use of natural resources and Human-centred living environments
Geoinformatics	All Aalto students	English	Master	ICT and digitalisation and Human-centred living environments
Geoinformatiikka	CHEM, ELEC, SCI students SIIRTYMÄSIVUAINE	Finnish	Bachelor	ICT and digitalisation and Human-centred living environments
Georakentaminen	Students at schools of technology SIIRTYMÄSIVUAINE	Finnish	Bachelor	ICT and digitalisation and Human-centred living environments

Henkilökohtainen sivuaine, vain CHEMin opiskelijoille	CHEM students only (kemiantekniikan kandidaattiohjelman pääaineopiskelijat)	Finnish	Bachelor	
Human Neuroscience and Technology	All Aalto students	English	Master	Health and wellbeing and ICT and digitalisation
Human-Centered Living Environment	All Aalto students	English	Master	Human-centred living environments
Human-Computer Interaction	All Aalto students	English	Master	ICT and digitalisation
Illustrada (sv) - Kuvitus (fi)	ARTS students only	Finnish	Bachelor	Art and design knowledge building
Industrial Internet	All Aalto students	English	Master	ICT and digitalisation
Informaatioteknologia (IT)	All Aalto students	Finnish	Bachelor	ICT and digitalisation
Informaatioverkostot	All Aalto students	Finnish	Bachelor	ICT and digitalisation and Global business dynamics
Information and Service Management, advanced level	All Aalto students	English	Master	ICT and digitalisation and Global business dynamics
Information and Service Management, intermediate level	All Aalto students	Finnish	Bachelor and Master	ICT and digitalisation and Global business dynamics
Information Technology Programme (ITP)	All Aalto students	English	Bachelor and Master	ICT and digitalisation
Insinöörityeiden älykkäät järjestelmät (fi) / Intelligent system inom ingenjörsvetenskaper (sv)	All Aalto students	Finnish	Bachelor	ICT and digitalisation
International Business (Mikkeli campus)	All Aalto students	English	Bachelor	Global business dynamics

International Design Business Management	All Aalto students	English	Master	Global business dynamics and Art and design knowledge building
International minor, only for ENG master students	ENG students only	English	Master	International studies
International Studies Minor (only for SCI students)	SCI students only	English	Bachelor and Master	International studies
Johtaminen	All Aalto students	Finnish	Bachelor	Global business dynamics and Health and wellbeing
Kansainvälinen sivuaine, vain CHEMin opiskelijoille	CHEM students only		Bachelor and Master	Kansainväliset opinnot
Kansainvälinen sivuaine, vain ELECin opiskelijoille	ELEC students only	English	Bachelor and Master	Kansainväliset opinnot
Kansainvälinen sivuaine, vain ENGIN kandiopiskelijat	ENG students only	Finnish or English	Bachelor	Kansainväliset opinnot
Kaupunkiakatemia	All Aalto students	Finnish	Bachelor	Human-centred living environments
Kemia	Students at schools of technology	Finnish	Bachelor	Materials and sustainable use of natural resources and Advanced energy solutions
Kiinteistötalous	CHEM, ELEC, SCI students SIIRTYMÄSIVUAINE	Finnish	Bachelor	Human-centred living environments



Kone- ja rakennustekniikka (fi) / Maskin- och byggnadsteknik (sv)	All Aalto students	Finnish	Bachelor		Human-centred living environments and Materials and sustainable use of natural resources
Konetekniikka	CHEM, ELEC, SCI students SIIRTYMÄSIVUAINE	Finnish	Bachelor		Materials and sustainable use of natural resources
Kuvanveisto	ARTS students only	Finnish	Bachelor		Art and design knowledge building
Kuvataidekasvatus	Students from University of Helsinki & University of Tampere	Finnish	Bachelor		Art and design knowledge building
Laskentatoimi	All Aalto students	Finnish	Bachelor		Global business dynamics
Laskentatoimi, vain Kauppakorkeakoulun KTM-opiskelijoille	BIZ students only	Finnish or English	Master		Global business dynamics
Liiketoimintaosaamisen perusteita (luento-opetus)	ARTS and schools of technology students	Finnish	Bachelor		Global business dynamics
Liiketoimintaosaamisen sivuaine (verkko-opetus)	ARTS and schools of technology students	Finnish	Bachelor		Global business dynamics
Machine Learning, Data Science and Artificial Intelligence	All Aalto students	English	Master		ICT and digitalisation
Management and International Business	All Aalto students	English	Master		Global business dynamics
Marine Technology	All Aalto students	English	Master	Online studies or contact learning	ICT and digitalisation
Marketing	BIZ students only	English	Master		Global business dynamics
Markkinointi	All Aalto students	Finnish	Bachelor		Global business dynamics
Mathematics (Bachelor level) / Matematiikka	All Aalto students	Finnish or English	Bachelor		Mathematics and research methods
Mathematics (Master level)	All Aalto students	English	Master		Mathematics and research methods

ME310 Aalto - Global Innovation Program	All Aalto students	English	Master	Global business dynamics
Mechanical Engineering	Students at schools of technology	English	Master	Materials and sustainable use of natural resources and Art and design knowledge building
MEDES - Master of European Design	ARTS students only	English	Bachelor	Art and design knowledge building
Media	All Aalto students	Finnish	Bachelor	Art and design knowledge building and ICT and digitalisation
Micro- and Nanoelectronic Circuit Design	All Aalto students	English	Master	ICT and digitalisation and Advanced energy solutions
Microwave Engineering	All Aalto students	English	Master	ICT and digitalisation and Advanced energy solutions
Minor study module completed at another university, for BIZ students (en) / Muualla suoritettu sivuopintokokonaisuus, vain BIZin opiskelijoille (fi)	BIZ students only	Finnish English	Bachelor Master	Global business dynamics
Multidisciplinary Energy Studies	All Aalto students	English	Master	Advanced energy solutions and ICT and digitalisation
Multilingual Business Communication (en) / Monikielinen yritysviestintä (fi)	BIZ students only	Language studies	Master	Global business dynamics
Muotoilu	All Aalto students	Finnish	Bachelor	Art and design knowledge building
New Media Design and Production	All Aalto students	English	Master	Art and design knowledge building

Nordic Visual Studies and Art Education	All Aalto students	English	Master	Art and design knowledge building
Operations and Service Management	All Aalto students	English	Master	Global business dynamics
Pack-Age: Interdisciplinary Packaging Design Project	All Aalto students	English	Master	Art and design knowledge building and Materials and sustainable use of natural resources
PatternLab	ARTS students only	English	Master	Art and design knowledge building and Global business dynamics
Photonics and Nanotechnology	All Aalto Students	English	Master	Materials and sustainable use of natural resources
Quantitative methods, advanced level	All Aalto students	English	Master	Mathematics and research methods
Quantitative Methods, intermediate level	All Aalto students	English	Bachelor and Master	Mathematics and research methods
Rakennettu ympäristö (fi) / Den byggda miljön (sv)	All Aalto students	Finnish	Bachelor	Human-centred living environments
Rakennussuunnittelu	All Aalto students	Finnish and English	Bachelor	Human-centred living environments
Rakennustekniikka	CHEM, ELEC, SCI students SIIRTYMÄSIVUAINEN	Finnish	Bachelor	Human-centred living environments and Advanced energy solutions
Real Estate Economics	All Aalto students	English	Master	Human-centred living environments Global business dynamics
Research Methods	BIZ students only	English	Master	Mathematics and research methods

Sarjakuvailmaisu	All Aalto students	Finnish and English	Bachelor	Art and design knowledge building
Scenography and Costume Design (en) / Lavastustaide ja pukusuunnittelu (fi)	All Aalto students	Finnish or English	Bachelor and Master	Art and design knowledge building
Security and Cloud Computing	All Aalto students	English	Master	ICT and digitalisation
Signal, Speech and Language Processing	All Aalto students	English	Master	Materials and sustainable use of natural resources  and  ICT and digitalisation
Sivuaine kotimaisesta yliopistosta (vain SCI opiskelijoille)	SCI students	Finnish	Bachelor and Master	
Sivuaine toisessa yliopistossa, vain CHEMin opiskelijoille	CHEM students	Finnish	Bachelor and Master	
Software and Service Engineering	All Aalto students	English	Master	ICT and digitalisation  and  Global business dynamics
Sound in New Media	All Aalto students	English	Master	Art and design knowledge building
Space Science and Technology	All Aalto students	English	Master	Materials and sustainable use of natural resources
Startup Minor	All Aalto students	English	Master	Global business dynamics
Statistics / Tilastotiede	All Aalto students	Finnish or English	Bachelor	Mathematics and research methods

Strategic Marketing	BIZ students only	English	Master	Global business dynamics and ICT and digitalisation
Strategy and Corporate Renewal	All Aalto students	English	Master	Global business dynamics
Supply Chain Management	All Aalto students	English	Master	Global business dynamics
Sustainable Metals Processing	All Aalto students	English	Master	Materials and sustainable use of natural resources
Systeemitieteet	All Aalto students	Finnish	Bachelor	ICT and digitalisation and Advanced energy solutions
Systems and Operations Research	All Aalto students	English	Master	ICT and digitalisation and Advanced energy solutions
Taloustiede	All Aalto students	Finnish	Bachelor	Global business dynamics
Taloustiede, Taloustieteen perusteet -kurssin tai vastaavat opinnot osana muita opintojaan jo suorittaneille	All Aalto students	Finnish	Bachelor and Master	Global business dynamics
Teknillinen fysiikka	All Aalto students	Finnish	Bachelor	Materials and sustainable use of natural resources and Advanced energy solutions
Teollinen prosessiteknikka	Students at schools of technology	Finnish	Bachelor	Materials and sustainable use of natural resources
Teollisuus ja ympäristö	Students at schools of technology	Finnish	Bachelor	Materials and sustainable use of natural resources

Textiles - Material and structure	ARTS students only	English	Master	Art and design knowledge building
Translational Engineering	All Aalto students	English	Master	Materials and sustainable use of natural resources
Tulevaisuuden tutkimuksen opintokokonaisuus	All Aalto students	Finnish	Bachelor	ICT and digitalisation and Global business dynamics
Tuotantotalous	All Aalto students	Finnish	Bachelor	Global business dynamics
Urban Studies & Planning	All Aalto students	English	Master	Human-centred living environments
USchool	ARTS, SCI students	English	Master	ICT and digitalisation and Art and design knowledge building
Vesi- ja ympäristötekniikka	CHEM, ELEC, SCI students SIIRTYMÄSIVUAINE	Finnish	Bachelor	Human-centred living environments and Advanced energy solutions
Viestintä	All Aalto students	Finnish	Bachelor	ICT and digitalisation and Global business dynamics
Visual Cultures, Curating and Contemporary Art	All Aalto students	English	Master	Art and design knowledge building
Yhdyskuntasuunnittelu	All Aalto students	Finnish or Swedish	Bachelor	Human-centred living environments
Yritysjuridiikka, aineopintotasoinen	All Aalto students	Finnish	Bachelor	Global business dynamics
Yritysjuridiikka, maisterivaiheen aineopintotasoinen kokonaisuus	All Aalto students	Finnish	Master	Global business dynamics
Yritysjuridiikka, syventävä kokonaisuus	All Aalto students	Finnish	Master	Global business dynamics