Logistics
Engineering / Management

Study component catalogue
2026 - 2027



CREATING MEANINGFUL EXPERIENCES

Academy for Built Environment & Logistics

2026-2027

Breda University
OF APPLIED SCIENCES

Foreword

Your bachelor's programme in Logistics Engineering or Logistics Management at BUas offers plenty of opportunities to develop your skills in logistics and supply chain management and to specialise in your area of interest.
During this programme, you will build a strong foundation, delve into complex logistics issues and gain valuable practical experience.
Whether you are just starting your studies or taking the final steps towards graduation, stay curious, keep growing and make the most of all the opportunities your programme and the logistics sector have to offer. We are happy to guide you in your development into a logistics professional.

This student handbook provides an overview of the curriculum for your Logistics Engineering or Logistics Management programme. You will also find the curriculum for the Project & Event Logistics specialisation, which runs from Year 2 through to Year 4. The student handbook consists of the following sections:

- All study units, with a description for each module including, amongst other things, the programme learning outcomes, learning objectives, content description and types of assessment with AI levels.
- An appendix with an overview of the programme learning outcomes.
- An appendix with a schematic curriculum overview for the entire duration of the programme (four academic years, four blocks per academic year).
- An appendix containing a summary table showing how the programme learning outcomes are linked to the various study units.
- A link to the year schedule containing lecture weeks, 'clean-up weeks', holidays, etc.
- A link to the assessment programme containing an overview of all examinations and assignments.

Teaching methods

In your study programme, you will use the following teaching methods:

- In **projects,** you will work in a small group with fellow students on a professional assignment. In doing so, you will develop knowledge, skills and the appropriate (professional) attitude within the professional context. The focus here is on project skills and collaboration, under the supervision of a project supervisor. You will receive guidance on the subject matter from lecturers with different backgrounds and areas of expertise.
- In **cases,** you acquire professionally relevant knowledge and skills by attending lectures and actively working on assignments. The lecturer teaches and supervises as an expert.
- In **Personal & Professional Development** (PPD), you will attend a programme of workshops designed to support your personal and professional development. You will work on various types of assignments that contribute to your development and help you make choices regarding your studies and career. Finally, you will also reflect on your development in a portfolio and/or in a discussion with your fellow students. In the PPD programme, you will receive personal guidance from your study coach. With your coach, you will discuss, among other things, the progress of your studies and the programme choices you can make after the propaedeutic phase.
- During **Connection to Industry and Research** (CIR), you will work on a research project and/or assignment commissioned by a company or institution.
- During **your work placement** and **graduation project**, you will carry out a work placement assignment independently for a professional organisation (such as a company or institution) or contribute to a project. You will be supervised by a BUas supervisor and a supervisor from the company (a 'company supervisor'). During the work placement and graduation project, there will also be return days. On these days, you will attend workshops, discuss your progress and/or take part in peer reviews with your fellow students.

Overview of your programme

This handbook helps you gain an understanding of the structure of your programme. From basic knowledge and practical experience to specialisation and graduation – discover what you can expect in each academic year and how you can best prepare for your future career.

Year 1: Laying the foundation

The first year helps you build the fundamental knowledge and skills you need for your studies and future career.

- Blocks 1A and 1B: Experiencing logistics and supply chain management.
- Blocks 1C and 1D: Learning and applying the basic principles of transport, distribution, warehousing and service logistics.

You will work on practical assignments, cases and projects. Within PPD, you will build your portfolio step by step, shaping your personal and professional development. Your coach will guide you through this process.

Year 2: Specialising and preparing for your placement

In the second year, you will delve deeper into logistics, with additional specialisation options. This is also the point at which you can choose the Logistics Management specialisation: Project & Event Logistics or the BUas specialisation programme Transformative Airline and Airport Management (TAAM).

- Blocks 2A and 2B: Working with production logistics and international supply chains.
- Blocks 2A and 2B: Further developing sustainable supply chains and choosing a logistics specialisation.
- Within the Project & Event Logistics specialisation: project-based work involving specialised transport and the Ministry of Defence.
- For information on the TAAM specialisation programme, see the TAAM 2026–2027 course catalogue.

Within PPD, this year you will focus on preparing for your placement.

Year 3: Placement and specialising in practice

This year is all about strengthening your own profile and carrying out assignments independently.

- Blocks 3A and 3B: Placement in the Netherlands or abroad. During the first half of the third year (18 weeks in total), you will undertake a placement at a company, gaining practical experience. Whereas in years 1 and 2 you worked in groups on business cases, you will now work independently on an assignment or project.
- Blocks 3C and 3D: Specialising in a logistics field and carrying out practical cases and challenges. Within PPD, you will assess where you currently stand in your development and set your development goals for the final year of study.

Year 4: Minor/exchange and graduation

In the final year, you will continue to develop your professional profile and complete your studies with a graduation placement.

- Blocks 4A and 4B: Further develop your profile at BUas, in the Netherlands or abroad. You have the option of taking a minor, undertaking a BUas project or participating in an exchange programme abroad.
- Blocks 4C and 4D: Graduating with a placement at a company in the Netherlands or abroad. In this semester, you will undertake a graduation placement and carry out a research project or assignment to demonstrate that you have mastered all the programme learning outcomes.

TER

All rules can be found in the Teaching and Examination Regulations (OER) 2026-2027. Where ABEL uses the term ‘study unit’ or ‘study component’, the TER uses the term ‘course’. Where ABEL uses different forms of assessment such as ‘written examination’, ‘assignment’ and ‘portfolio assessment’, the TER uses the term ‘examination’.
For your information: in each academic year, you can earn 60 credits (ECs), with 1 credit (1 EC) representing 28 hours of study load.

We wish you a pleasant and successful academic year.

The management team of Logistics Engineering and Logistics Management.

This study catalogue is part of the Built Environment and Logistics Teaching and Examination Regulations.

Logistics Engineering / Management
2026 - 2027: year 1

Semester 1

Block A	**Osiris-code**		**ECTS**	**Page**
Getting Started	BLE1.AGET-2		5	9
Basics of Supply Chain Management	BLE1.ABOS-2		5	10
Experience Supply Chain Management 1	BLE1.AES1-1		5	11
Block B				
Experience Supply Chain Management 2	BLE1.BES2-2		5	14
Modelling & Planning	BLE1.BMOD-1		5	16
Personal & Professional Development 1	BLE1.BPP1-2		5	18
		Subtotal	**30**	

Semester 2

Block C	**Osiris-code**		**ECTS**	**Page**
Material Logistics – Basics	BLE1.CMLB-1		5	20
Service Logistics – Basics & Innovation	BLE1.CSLB-2		5	21
Connection to Industry & Research 1	BLE1.CCR1-2		5	23
Block D				
Material Logistics - Improvement & Innovation	BLE1.DMII-1		10	25
Personal & Professional Development 2	BLE1.DPP2-1		5	27
		Subtotal	**30**	
		Total	**60**	

LogisticsEngineering / Management
2026 - 2027: year 2

Semester 3

Block A	**Osiris-code**	**ECTS**	**Page**
Operations Management	BLE2.AOPM-1	5	29
Information Management	BLE2.AINF-2	5	30
Specialisation			
Connection to Industry & Research 2	BLE2.ACR2-1LGM	5	31
CIR2 – Foundation of ADS & AI	BLE.ACR2-1LGE	5	32
Block B			
Production Project	BLE2.BPRO-1	5	35
Personal & Professional Development 3	BLE2.BPP3-1	5	37
Specialisation			
Cross-Border Supply Chains	BLE2.BCBS-1	5	38
Militairy Logistics for LM	BLE2.BMIL-1PEL	5	39
	Subtotal	**30**	

Semester 4

Block C	**Osiris-code**	**ECTS**	**Page**
Running Sustainable Businesses	BLE2.CRSB-1	5	42
Research Methods	BLE2.CMTO-1	5	43
Advanced Supply Chain Management	BLE2.CASC-1	5	44
Block D			
Connection to Industry & Research 3	BLE2.DCR3-1	5	47
Personal & Professional Development 4	BLE2.DPP4-1	5	49
Specialisation			
Entrepreneurship for LM	BLE2.DENT-1LGM	5	50
Fundamentals of DS & AI for LE	BLE2.DFUN-2LGE	5	52
	Subtotal	**30**	
	Total	**60**	

Logistics Engineering / Management
2026 - 2027: year 3

Semester 5

Block A & B	**Osiris-code**	**ECTS**	**Page**
Placement	BLE3.PLAC-1	30	54
	Subtotal	**30**	

Semester 6

Block C	**Osiris-code**	**ECTS**	**Page**
Specialisation - Challenge part 1	BLE3.CCH1-2	5	57
Deep Dive	BLE3.CDDI-2	5	58
Personal & Professional Development 6	BLE3.CPP6-2	5	59
Block D			
Specialisation - Challenge 2	BLE3.DCH2-2	10	61
Specialisation			
Supply Chain Execution for LM	BLE3.DSCE-1LGM	5	62
Decision Support Systems for LE	BLE3.DDSS-1LGE	5	63
	Subtotal	**30**	
	Total	**60**	

Logistics Engineering / Management
2026 - 2027: year 4

Semester 7

Block A & B	**Osiris-code**	**ECTS**	**Page**
Change Management	BXE4.GROU-1CHM	20	66
	BXE4.INDV-1CHM	10	"
	BXE4.PROC-1CHM	Cond.	"
Crowd Safety in Hubs & Events	BXE4.GROU-1CRS	15	67
	BXE4.INDV-1CRS	15	"
	BXE4.PROC-1CRS	Cond.	"
International Urban Redevelopment	BXE4.GROU-1IUR	15	69
	BXE4.INDV-1IUR	15	"
External Minor ABEL	BEXT.25MINOR	30	-
	Subtotal	**30**	

Semester 8

Block C & D	**Osiris-code**	**ECTS**	**Page**
Graduation	BXX4.GRAD-1	30	72
	Subtotal	**30**	
	Total	**60**	

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Logistics

Year 1

Semester 1 Block A

Osiris-code:	BLE1.AGET-2
Course name:	Getting Started
Study load:	5 EC (= 140 uur)
Coördinator:	Sijbren Hogewerf
Content description:	This study component serves as an introduction to the field of logistics and supply chain management and the various possibilities open to students and professionals in the industry, as well as your start as a student at BUas. The key elements of a supply chain will be described and the supply chains of several different kinds of organisations will be analyzed. You will also be given the opportunity to reflect upon your own ambitions and goals as student and young professional in the logistics industry, and will be asked to articulate these ideas and relate them to your next four years in the study programme.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Develop - You develop as a logistics professional inspired by industry trends and personal reflection.

Unit Learn. Outcomes:	Zelcom:
You describe and visualise basic elements of the logistics flows of an international supply chain.	A
You make recommendations to improve the physical logistics operation of an organisation.	A
You explore your world as a university of applied sciences student and the world of logistics and supply chains.	A

Language:	English
Teaching activities:	Lecture Workshop Excursion / Company visit
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	4
	Group assignment	Conditional	P/F/MO	4
	Individual assignment	Conditional	P/F/MO	4

Osiris-code:	BLE1.ABOS-2
Course name:	Basics of Supply Chain Management
Study load:	5 EC (= 140 uur)
Coördinator:	Tobias de Nooy
Content description:	In this study component you learn the different elements of entire End-to-End Supply Chains (SC). Starting with the customer and his or her demand, all activities in the Supply Chain are illuminated. The way in which a company can design the SC: Procurement and supply, warehousing, production, distribution, e-commerce & reverse logistics are topics that are dealth with. In addition, attention is given to the elaboration of the financial flows within the company, expressed in relevant financial statements such as the income statement and cash flow statement. Each topic will be introduced by a lecture and you will then elaborate a case related to that topic. Next to that, you are creating a portfolio of summaries and/or mindmaps regarding the topics of the lectures.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain.
Unit Learn. Outcomes:	You identify the financial, physical, and information flows within the supply chain. Zelcom: A
Language:	English
Teaching activities:	Lecture Workshop Excursion / company visit
Required literature:	Logistics Management - Basics of Supply Chain Management 2026/2027, online EDUbook from Edumundo Finance & Control - Foundations of Finance & Control year 1 2026/2027, online EDUbook from Edumundo
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Written exam	50%	Numerical mark, MO	1
	Written exam	25%	Numerical mark, MO	1
	Written exam	25%	Numerical mark, MO	1

Osiris-code:	BLE1.AES1-1
Course name:	Experience Supply Chain Management 1
Study load:	5 EC (= 140 uur)
Coördinator:	Bas Groot
Content description:	In this exciting project, you and your team will launch your very own production company. But don't expect a step-by-step manual — this is the real deal. You'll be thrown into the fast-paced world of logistics and supply chain management, where information is unstructured, decisions come fast, and teamwork is everything. From setting goals and organizing meetings to running production, managing orders, and dealing with customers — you'll experience how it feels to be in charge of supply chain operations. On top of that, you'll keep track of the money: what's coming in, what's going out, and how your choices impact your company's bottom line. Throughout the project, you'll take on different roles, use visual tools and dashboards to improve performance, and learn how to organize chaos into structure. And just when you think you've got it under control... it's game time. In the final weeks, everything comes together during an intense simulation game day, where your team will compete, collaborate, and try to impress your customers — and maybe even make a profit. Ready to turn theory into action? Let's build your first supply chain together.
Progr. Learn. Outcomes:	Manage- You manage a project or a process to achieve the intended result. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain.
Unit Learn. Outcomes:	You develop basic skills in planning, collaborating, steering, organising the team process and jointly evaluating the final result. — Zelcom: A You analyse the bottlenecks and performance of a supply chain on the basis of data and experience. — B2
Language:	English
Teaching activities:	Project with coaching Lecture Workshop
Required literature:	Edubook Finance & Control year 1 Edubook Logistics: The basics
Other materials:	Website/Engine Blokko

Examination:	Assessments	Weightage	Mark	AI level
	Group assessment oral / presentation	50%	Numerical mark, MO	4

	Individual assessment oral / presentation	50%	Numerical mark, MO	4
	Individual process assessment	Conditional	P/F/MO	4
	Individual assessment game/simulation	Conditional	P/F/MO	4

Logistics

Year 1

Semester 1 Block B

Osiris-code:	BLE1.BES2-2
Course name:	Experience Supply Chain Management 2
Study load:	5 EC (= 140 uur)
Coördinator:	Bas Groot
Content description:	So, you survived the chaos of Experience Supply Chain 1.0. You built your first company, ran production, made real decisions — and learned how tricky supply chain management can be. Ready to level up? In Experience Supply Chain 2.0, your team takes the next step: growing your company into a competitive business with a clear strategy, strong operations, and smart decision-making. This time, it's not just about running a company — it's about steering it. You'll explore how sales, marketing, and strategy go hand in hand. You'll balance demand and supply through Sales & Operations Planning. You'll calculate capacity, make investment decisions, and build a solid business plan that includes legal foundations and protection of your ideas. And throughout the project, you'll track your performance using real indicators and dashboards — just like a professional supply chain team. On top of that, you'll write your own action-driven role plan and work with your team to deliver a final year report that shows what you've achieved — and how you got there. Still no step-by-step guide. Still messy. But now with more depth, more responsibility, and more chances to shine. Let's grow your business. Let's grow your skills.
Progr. Learn. Outcomes:	Manage - You manage a project or a process to achieve the intended result. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain.

Unit Learn. Outcomes:	Zelcom:
You manage the team process and progress by creating plans, monitoring responsibilities, collaborating effectively, and jointly steering towards achieving the objectives of your company.	B2
You advise the management team of your organisation on business decisions in order to achieve a better joint result.	B1
You document the implementation of changes for your role within an organisation.	B1
You analyse the bottlenecks and performance of a supply chain on the basis of data and experience.	B2

	You design (re)configurations of processes within your company and the supply chain to improve your company's performance.	B1

Language: English

Teaching activities: Project with coaching
Lecture
Workshop

Required literature: Edubook Finance & Control jaar 1/year 1
Edubook Logistics: The basics

Other materials: Website/Engine Blokko

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	25%	Numerical mark, MO	4
	Individual assignment	50%	Numerical mark, MO	4
	Individual process assessment	Conditional	P/F/MO	4
	Group assignment	25%	Numerical mark, MO	4

Osiris-code:	BLE1.BMOD-1
Course name:	Modelling & Planning
Study load:	5 EC (= 140 uur)
Coördinator:	Jan Willem Boskaljon
Content description:	This study component, part of the second block, focuses on distinguishing between different planning levels and the associated information needs. Business decisions are supported by process mapping, cost calculations and integrated information systems. You can use the theory provided during the Blokko project. The study component entails four sub-areas. Business Process Modelling teaches you to visualize and understand business processes, such as drawing a warehouse process in Signavio. Production Planning covers how factories ensure timely availability of materials and capacities, covering topics such as MRP1, MRPII and S&OP. Cost Accounting provides insight into how costs of goods manufacturing and services are calculated and valued in accounting. ICT & ERP introduces you to the digital developments and systems within the logistics sector. By working with Odoo, you will develop experience and knowledge of Enterprise Resource Planning (ERP) systems. This course provides a comprehensive foundation in planning, cost management, and information systems, essential for making business decisions and optimizing logistics processes.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.
Unit Learn. Outcomes:	You translate internal processes of financial, information, and physical flows into a coherent forecast and plan for the entire organisation. — Zelcom: B1 You make proposals to the management of an SME on the design of internal work and planning processes. — B1 You map the primary processes, translate these into an ERP system, and then plan the production activities in order to meet customer demand. — B1
Language:	English
Teaching activities:	Lecture Workshop
Required literature:	Edubook Finance & Control; year 1 Logistics: Principles and Practice, Visser & Van Goor, EAN 9789081649117
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	50%	Numerical mark, MO	4
	Individual assignment	50%	Numerical mark, MO	2

Osiris-code:	BLE1.BPP1-2
Course name:	Personal & Professional Development 1
Study load:	5 EC (= 140 uur)
Coördinator:	Suzanne Vollenbronck
Content description:	In the study component Personal & Professional Development 1 you are supported to think about your personal and professional development in becoming a logistics professional. Topics that will be addressed include study skills, personal development, and understanding the relevance of the various logistics compentencies. This study component supports you with the transition from your previous education to our Logistics programme and entrance to the industry
Progr. Learn. Outcomes:	Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You demonstrate your growth as a student based on the knowledge, skills and attitude gained and developed in semester 1. Zelcom: B1
Language:	English
Teaching activities:	Lecture Workshop Individual coaching
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Portfolio	50%	Numerical mark, MO	3
	Individual assessment oral / presentation	50%	Numerical mark, MO	3
	Individual assignment	Conditional	P/F/MO	3

Logistics

Year 1

Semester 2 Block C

Osiris-code:	BLE1.CMLB-1
Course name:	Material Logistics – Basics
Study load:	5 EC (= 140 uur)
Coördinator:	Luuk Koopman
Content description:	You will explore the basics of physical flows, including transport, warehousing, distribution and inventory management. With the individual assignment you will dive into the world of transport management and you will become acquainted with the financial and legal components involved. In the written exam, your gained knowledge of inventory management and warehousing will be tested.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain.
Unit Learn. Outcomes:	You describe how physical distribution determines the performance of a supply chain. Zelcom: B1
Language:	English
Teaching activities:	Lecture Workshop Excursion / company visit
Required literature:	Logistics: Principles and practice: a demand and supply chain management (Visser en van Goor, ISBN 9789081649117) A practical guide to logistics (Rudd, ISBN 9780749486310) The logistics and supply chain toolkit (Richards en Grindsted, ISBN 9781789660869)
Other materials:	Edubook Finance and Control year 1

Examination:	Assessments	Weightage	Mark	AI level
	Written exam	50%	Numerical mark, MO	2
	Written exam	50%	Numerical mark, MO	2

Osiris-code:	BLE1.CSLB-2
Course name:	Service Logistics - Basics & Innovation
Study load:	5 EC (= 140 uur)
Coördinator:	Justin v.d. Pas
Content description:	In this study component you will explore the basics behind a service driven organization or in other words the organization and operation behind the delivery of services. Service logistics is concentrating on physical flows, like material logistics, but pinpoints more specifically on the flow of persons. It entails the journey of the customer in a service environment. The customer and the seek for satisfaction are the beating heart of this study component. Hence, in this study component, you will move away from the material part of logistics and a new light will shine on the human part of logistics.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	You investigate the operational logistics processes in a service-oriented environment.	B2
	You analyse information and physical flows to evaluate processes in a service-oriented environment.	B1
	You design a logistics blueprint for a service organisation and a simulation of human flows in the service sector.	B1
	You advise service providers on your findings in the area of service logistics.	B1

Language:	English
Teaching activities:	Project with coaching Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	30%	Numerical mark, MO	4
	Group assignment	30%	Numerical mark, MO	4

	Written exam	40%	Numerical mark, MO	1

Osiris-code:	BLE1.CCR1-2
Course name:	Connection to Industry & Research 1
Study load:	5 EC (= 140 uur)
Coördinator:	Bas Groot
Content description:	You will work within organisations or projects that are linked to the supply chain and logistics industry. You make your own choices in which (sub) segment of the industry, company and project you want to gain experience and insights. You will transfer the knowledge and experience from projects, courses and trainings into 'real life' situations. By making choices and experiencing you will broaden your horizon regarding the (career) possibilities within the industry.
Progr. Learn. Outcomes:	Manage - You manage a project or a process to achieve the intended result. Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You participate in an organisation or project and become acquainted with the logistics and supply chain industry or logistics processes within an organisation. — Zelcom: B1 You demonstrate your experiences, learning points and acquired knowledge on current logistics-related developments. — Zelcom: B1
Language:	English
Teaching activities:	Placement Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	4

Logistics

Year 1

Semester 2 Block D

Osiris-code:	BLE1.DMII-1
Course name:	Material Logistics - Improvement & Innovation
Study load:	10 EC (= 280 uur)
Coördinator:	Azadeh Irajifar
Content description:	This study component is divided in 3 different parts: MLI&I work package 1: a critical reflection on the current inventory management concept supported by a new and recalculated inventory management model. MLI&I Work package 2: In this stage you need to decide on a suitable location for the European distribution centre. In addition, a choice must also be made for a suitable transporter. MLI&I Work package 3: This is about the organization of processes, the operation of the physical flows in the warehouse, for example order planning and work pressure, the design of the shopfloor where the goods are handled. The design needs to be considering the future aspects and volumes of the business.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.

Unit Learn. Outcomes:	Zelcom:
You map the current situation of a company in physical distribution.	B2
You interpret data and processes to identify connections within physical distribution.	B2
You design a technically and financially feasible layout for a warehouse.	B2
You advise, as a consultancy, a logistics client in physical distribution on optimising (part of) the chain.	B2
You manage a project in physical distribution within a group in order to achieve the intended result.	B2

Language:	English
Teaching activities:	Lectures Worksessions Guest lectures & company visits
Required literature:	Visser & Van Goor. Logistics: Principles and Practice: a demand and supply chain management approach. Heruitgave. Hessel Visser B.V. (ISBN 9789081649117):

Other materials: Recommended literature: Mulders, M. 101 management models. Noordhoff Uitgevers (ISBN 9789001885762)
Rudd. A practical guide to logistics. KOGAN (ISBN 9780749486310)
Richards, G., Grinsted, S. The logistics and supply chain toolkit. KOGAN (ISBN 9781789660869)
Jansen, N.A. Law & Self-Regulation. (ISBN 9789053832028)

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	30%	Numerical mark, MO	3
	Individual assignment	20%	Numerical mark, MO	3
	Group assignment	50%	Numerical mark, MO	3
	Individual process assessment	Conditional	P/F/MO	-
	Hogeschooltaal	Conditional	P/F/MO	1

Osiris-code:	BLE1.DPP2-2
Course name:	Personal & Professional Development 2
Study load:	5 EC (= 140 uur)
Coördinator:	Suzanne Vollenbronck
Content description:	Topics that will be addressed include your personal qualities and points for development, insights in different cultures, understanding the relevance of the various logistics compentencies and making choices regarding your own ambition and development. This study component supports you in making choices in which industry segments you would like to develop yourself.
Progr. Learn. Outcomes:	Develop - You develop as a logistics professional inspired by industry trends and personal reflection. Design - Je (her) ontwerpt een haalbare verbetering of innovatie voor een proces/product in de supply chain.
Unit Learn. Outcomes:	You demonstrate your passion, talents and action points with regard to your future as a student and/or professional. Zelcom: B2 You visualise and design an object/symbol that encompasses your qualities, your passion and your contribution to the world. B2
Language:	English
Teaching activities:	Individual coaching Workshop
Required literature:	A license to access the Ikigai digital environment
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	50%	Numerical mark, MO	3
	Portfolio	50%	Numerical mark, MO	3
	Individual assignment	Conditional	P/F/MO	3

Logistics

Year 2

Semester 3 Block A

Osiris-code:	BLE2.AOPM-1
Course name:	Operations Management
Study load:	5 EC (= 140 uur)
Coördinator:	Marco Miranda Ackerman
Content description:	Operations Management is the systematic design, direction, and control of processes that transform inputs into services and products for internal,as well as external, customers. In this course you will learn how to use operations to create value by looking at process and product design, layout choices, concepts as TOC, MRP and Lean supported by techniques as line balancing, linear programming and network analysis.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain.
Unit Learn. Outcomes:	You analyse bottlenecks and performance in physical processes by applying quantitative methods. Zelcom: C2
Language:	English
Teaching activities:	Workshop Lecture
Required literature:	Operations Management: Processes and Supply Chains by Krajewski and Malhotra, 2025, 14th edition, Global edition,ISBN:9781292731117. Edition 13 is also usable!
Other materials:	Various materials distributed on BrightSpace like papers, videos, software and Excel files

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	30%	Numerical mark, MO	3
	Written exam	70%	Numerical mark, MO	1

Osiris-code:	BLE2.AINF-2
Course name:	Information Management
Study load:	5 EC (= 140 uur)
Coördinator:	Annemiek Adriaansen
Content description:	In a business simulation, we will develop step by step through two essential fields within logistics. We are building on scaling up a promising motor bike company. In this upscaling, we will have to improve both the physical and administrative processes. Physically, we will move from a job shop set-up to a line of production work, where we will deal with standardization, quality management, flow and assurance. Administratively, we will implement the essential physical processes in an ERP system. Students provide a set of work instructions and training so that outsiders can run the operation.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Implement - You implement improvements and/or innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.

Unit Learn. Outcomes:	Zelcom:
You structure physical and administrative process flows of a production company.	C2
You document an optimised production process in relation to physical and administrative flows.	C2
You evaluate the improvement cycles that are implemented in a simulation.	B1
You report and reflect in a structured manner on project progress, results and your own contribution, and make improvement proposals that align with the team process and project objectives.	B1

Language:	English
Teaching activities:	Workshop Simulation Lecture
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	60%	Numerical mark, MO	5
	Group assessment oral / presentation	40%	Numerical mark, MO	5
	Individual assignment	Conditional	P/F/MO	5

Osiris-code:	BLE2.ACR2-1LGM
Course name:	Connection to Industry & Research 2
Study load:	5 EC (= 140 uur)
Coördinator:	Luuk Koopman
Content description:	You will make an analysis of several organisations or projects. By mapping the core processes and analysing the internal/external environment, you will gain understanding of the activities within the industry and research field. You make your own choices in which (sub) segment of the industry or research projects you want to gain experience and insights. You will transfer the knowledge and experience from projects, cases and trainings into the analysis of the organisation or project. You will broaden your horizon regarding the (career) possibilities within the (logistics) industry.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.

Unit Learn. Outcomes:	Zelcom:
You investigate a logistics organisation using qualitative research technique.	B2
You make recommendations on the internal and external environment of existing organisations or projects using qualitative research methods.	B1
You manage the involvement of external stakeholders in a qualitative research trajectory.	B1

Language:	English
Teaching activities:	Workshop Excursion / company visit
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	50%	Numerical mark, MO	2
	Group assignment	50%	Numerical mark, MO	2

Osiris-code:	BLE2.ACR2-1LGE
Course name:	CIR2 - Foundation of ADS & AI
Study load:	5 EC (= 140 uur)
Coördinator:	Luuk Koopman
Content description:	This study component runs along two connected topics. The first builds your understanding of data science, machine learning, and artificial intelligence, and how these, alongside data mining, can solve real-world challenges in logistics engineering. You explore the roles and career paths of data professionals in logistics and how data-driven decision-making is transforming supply chains and operations. You build technical foundations in Python, statistics, and industry-standard frameworks such as CRISP-DM and Agile, while engaging with the ethical considerations around data use, including bias, privacy, and responsible AI. The second topic takes that growing knowledge into the field. You learn the basics of qualitative research and professional interviewing, and approach a small number of logistics companies yourself. Through these interviews you map how each company applies data science and AI in practice: which data and tools they use, who decides, what value it delivers, and where the practical and ethical limits lie. Interviewees may include supply chain and data analysts, business process managers, planners, operations managers, or BI specialists. The two topics reinforce each other: the course content shapes the questions you ask, and the interviews give practical meaning to the concepts. Comparing the two gives you a realistic picture of how data science and AI are genuinely used, and sometimes constrained, within logistics operations, while you apply sound ethical practice throughout: consent, confidentiality, fair representation, and transparency about any AI tools used.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.

Unit Learn. Outcomes:		Zelcom:
	Present to a specified target group in an inspiring and appealling way;	B2
	Gain experience within the industry or a (research)project;	B1
	Map the core processess of an organisation or research project.	B1

Language:	English
Teaching activities:	Workshop Company visit
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	50%	Numerical mark, MO	2
	Group assignment	50%	Numerical mark, MO	2

Logistics

Year 2

Semester 3 Block B

Osiris-code:	BLE2.BPRO-1
Course name:	Production Project
Study load:	5 EC (= 140 uur)
Coördinator:	Irene Meeuwesen
Content description:	This project focuses on various aspects of Operations Management based on a business situation. You will develop three recommendations in the field of purchasing, process design and automation for a company. You will create a decision model for purchasing contract management of flow meters in which you decide which purchase strategy will be chosen for each item. You will make a material handling plan and a machine configuration and layout for the production of hospital beds. You will make a production configuration and an operating system for the wrapping of personal medical devices. In the analyses, you will use layouts and datasets. These relate to products and the (current and future) consumption, technical properties of machines and products. In addition, you use financial data, so that you can make choices that lead to a combination of good delivery performance and a healthy financial situation. Your results highlight physical, information and financial flows that enable the company to innovate and grow.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or a process to achieve the intended result.

Unit Learn. Outcomes:		Zelcom:
	You analyse the current processes in a production environment leading to an improvement proposal.	C2
	You advise the management of a production organisation on automating the production process.	B2
	You collaborate in a project group in order to achieve a joint objective in a production environment.	B2

Language:	English
Teaching activities:	Lecture Workshop Project with coaching
Required literature:	Study manual en Project reader Production project, Operations Management: Processes and Supply Chains by Krajewski and Malhotra, 2025, 14th edition, Global edition,ISBN:9781292731117. Edition 13 is also usable!
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	50%	Numerical mark, MO	4

	Written exam	50%	Numerical mark, MO	1
	Individual process assessment	Conditional	P/F/MO	1
	Group assignment	Conditional	P/F/MO	1
	Individual assignment	Conditional	P/F/MO	2

Osiris-code:	BLE2.BPP3-1
Course name:	Personal & Professional Development 3
Study load:	5 EC (= 140 uur)
Coördinator:	Mariana Chinellato Ferreira
Content description:	In this study component you will make the necessary preparations to successfully start searching for a placement. You will investigate your qualities and development points and investigate the kind of organisations in which you would like to do your placement. The assignments you will complete for this study component aid in the search and application process and encourage you to undertake activities to develop your professional network. In addition,you will join an international fieldtrip and reflect on your development on the programme learning outcomes.
Progr. Learn. Outcomes:	Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You develop your professional network, and professional resources and skills in order to successfully apply for a placement or job. Zelcom: B1
Language:	English
Teaching activities:	Workshop Individual coaching
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Portfolio	100%	Numerical mark, MO	4
	Individual assignment	Conditional	P/F/MO	3
	Individual assignment	Conditional	P/F/MO	4

Osiris-code:	BLE2.BCBS-1
Course name:	Cross Border Supply Chains
Study load:	5 EC (= 140 uur)
Coördinator:	Peter Kole
Content description:	You will investigate international flow of goods, supply chain networks, advise on strategic and operational level about improvement opportunities (including aspects like physical flows, legal, finance, etc.) and present to the board of directors in your role as a supply chain manager.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Advice - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or process to achieve the intended result.
Unit Learn. Outcomes:	You analyse the risks and effects of external disruptions within the international supply chain of a product. — Zelcom: C2 You make proposals on managing external risks within the international end-to-end supply chain of a specific product. — B2 You manage an international supply chain project in which you communicate and collaborate in multicultural and international settings in order to achieve the intended result. — B2
Language:	English
Teaching activities:	Workshop Lecture
Required literature:	Edubook Finance & Control (Y1 and 2) (via Edumundo). Other readers/articles will be provided by Buas
Other materials:	Hogeschooltaal license.

Examination:	Assessments	Weightage	Mark	AI level
	Groupl assignment	40%	Numerical mark, MO	4
	Written exam	60%	Numerical mark, MO	1
	Hogeschooltaal	Conditional	P/F/MO	1

Osiris-code:	BLE2.BMIL-1PEL
Course name:	Military Logistics for LM
Study load:	5 EC (= 140 uur)
Coördinator:	Sanne Kuipers
Content description:	Military logistics operations are among the most complex supply chain challenges in the world: they require precise planning, tight coordination, and effective communication across cultural and organizational boundaries. In this course, you step into the role of a logistics project manager responsible for planning the full deployment of personnel and equipment from a warehouse in the Netherlands to a NATO peace training exercise in Germany. You will work in an international project team, apply structured project management methodologies used in military and defence logistics, and present your logistics plan to a panel of stakeholders. The course challenges you not only to plan, but to manage, quickly adapt, and communicate.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Advice - You advise on possible improvements and/or applicable innovations in the supply chain. Manage - You manage a project or process to achieve the intended result.

Unit Learn. Outcomes:		Zelcom:
	You analyse the risks and effects of external disruptions within the international supply chain of a product.	C2
	You make proposals on managing external risks within the international end-to-end supply chain of a specific product.	B2
	You manage an international supply chain project in which you communicate and collaborate in multicultural and international settings in order to achieve the intended result.	B2
	You make proposals on managing external risks within the international end-to-end of a specific product.	

Language:	English
Teaching activities:	Workshop Lecture Excursion / company visit
Required literature:	Defense logistics - Jeremy Smith Reader OATDOEM IK217-Decision card
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Groupl assignment	40%	Numerical mark, MO	3
	Individual assignment	60%	Numerical mark, MO	3

	Hogeschooltaal	Conditional	P/F/MO	

Logistics

Year 2

Semester 4 Block C

Osiris-code:	BLE2.CRSB-1
Course name:	Running Sustainable Businesses
Study load:	5 EC (= 140 uur)
Coördinator:	Karolien Kampstra
Content description:	We are in the middle of the transition to a different sustainable and more circular society. For companies and organizations this means that they must organize themselves sustainably. This requires a change in their business and revenue models. So we need to move towards business models that have a positive impact on people, society and the environment. In this study component you will therefore analyze how companies and organizations could make a transition from all business facets such as HR, Legal, Sales & Marketing, Ethics, Leadership styles, Change methods and Procurement to a sustainable or circular business proposition in which in the Entrepreneurship follow-up study component, we will apply the acquired knowledge in practice.
Progr. Learn. Outcomes:	Analyse You analyse financial, information and goods flows to identify areas for improvement and/or potential innovations in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain.
Unit Learn. Outcomes:	You identify how organisations can implement a sustainability transition across all parts of the business. — Zelcom: C2 You advise the management team of an organisation on implementing a sustainable transition across all parts of the business. — C1
Language:	English
Teaching activities:	Lecture Workshop
Required literature:	Organizing for Sustainability (Jonker, J, Faber N. et. al) (free E-book)
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	40%	Numerical mark, MO	2
	Written exam	60%	Numerical mark, MO	1

Osiris-code:	BLE2.CMTO-1
Course name:	Research Methods
Study load:	5 EC (= 140 uur)
Coördinator:	Thato Motloung
Content description:	This course begins with an introduction to basic research design, focusing on the plan of Approach (PoA). Students will then explore both quantitative and qualitative methods for data collection and analysis. The curriculum includes an in-depth study of literature and the design of theoretical frameworks. Practical applications of observation and measurement are emphasized, along with insights into descriptive statistics within logistic operations. Additionally, the course covers process measurement techniques in logistics.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration.
Unit Learn. Outcomes:	You investigate a logistics process using research techniques. Zelcom: C2
Language:	English
Teaching activities:	Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	100%	Numerical mark, MO	2
	Group assessment oral / presentation	Conditional	P/F/MO	2

Osiris-code:	BLE2.CASC-1
Course name:	Advanced Supply Chain Management
Study load:	5 EC (= 140 uur)
Coördinator:	Ron van der Wegen
Content description:	In the Advanced Supply Chain Management study component, the central theme is managing and improving existing supply chains. The lectures will address this from different perspectives and will combine theory with application. All considering the impact on the overall business performance, people, planet & profit, for a company.
Progr. Learn. Outcomes:	Analyse -You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	Analyze - You distinguish trade-offs in the international supply chains and within the context of the company strategy, industry and global developments.	C3
	Design - You (re)design a supply chain, describing the impact and assessing the risk on the physical.	C2
	Advise: Engineering - You propose with the aid of visualisation, data driven conclusions to stakeholders on supply.	C1
	Advise: Management - You propose a business case to stakeholders on supply chain improvement opportunities.	C1

Language:	English
Teaching activities:	Lecture Workshop
Required literature:	SCM: Processes and Supply Chains by Krajewski and Malhotra, 2025, 14th edition, Global edition,ISBN13: 9781292462998. Finance: Edubook Finance & Control, year 2 Further reading materials, cases and datasets will be provided by the relevant teacher in Brightspace.
Other materials:	Power BI Desktop is the tool being used in the Information Management lectures and is required for the assignments. Access to the free or pro version is required. For Apple and Chromebooks recommended is a virtual machine / parallel desktop with Windows if you are not able to borrow a Windows laptop from someone -> check and install before class. There are free and paid versions of virtual machines / parallel desktops. The use of Power BI Web is not recommended, as the functionality is limited and might impact your execution of the required assignments. All Information Management class materials will be focused on Power BI Desktop.

Examination:	Assessments	Weightage	Mark	AI level
	Written exam	40%	Numerical mark, MO	1
	Individual assignment	60%	Numerical mark, MO	2

Logistics

Year 2

Semester 4 Block D

Osiris-code:	BLE2.DCR3-1
Course name:	Connection to Industry & Research 3
Study load:	5 EC (= 140 uur)
Coördinator:	Letty Zhu
Content description:	The project begins by selecting one of the themes in Logistics: Event Logistics, Healthcare Logistics, Physical Distribution & Production Logistics. The objective is to provide improvement advice to an organization or contribute to a research project. By analyzing core processes in an organization or participating in a research project, you will identify potential bottlenecks and trends, which will form the basis for improvement ideas or research results. You will apply knowledge and experience gained from previous projects, courses, and trainings to analyze the organization or project. Through making choices and gaining experience, you will broaden your understanding of career possibilities within the industry. You will collaborate with both Dutch and international students to develop cross-cultural understanding and communication skills.
Progr. Learn. Outcomes:	Research - You research supply chain or logistics challenges in a broader context taking sustainability, internationalisation and technology into consideration. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain. Manage - You manage a project or process to achieve the intended result.

Unit Learn. Outcomes:	Zelcom:
You investigate a defined supply chain challenge, taking into account sustainability, internationalisation, or technology.	C2
You (re)design a process or product within an existing organisation, or a research project.	C2
You advise on possible improvements and/or applicable innovations in the organisation.	C2
You convince your client that your chosen improvement is feasible and viable for implementation.	B2
You manage a project in order to achieve the intended result.	C1

Language:	English
Teaching activities:	Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	70%	Numerical mark, MO	4

	Individual assessment oral / presentation	30%	Numerical mark, MO	4
	Individual process assessment	Conditional	P/F/MO	4

Osiris-code:	BLE2.DPP4-1
Course name:	Personal & Professional Development 4
Study load:	5 EC (= 140 uur)
Coördinator:	Sijbren Hogewerf
Content description:	In this study component you will make the necessary preparations to successfully start searching for an internship. You will investigate your qualities and development points and investigate the kind of organisations in which you would like to do your internship(s). The assignments you will complete for this study component aid in the search and application process and encourage you to undertake activities to develop your professional network. Besides you will reflect on your your development, your qualities and your points for development for the next phase of your study.
Progr. Learn. Outcomes:	Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You reflect on your development in the first half and determine your development direction for your placement phase and the second half of your studies based on a self-critical attitude. Zelcom: B1
Language:	English
Teaching activities:	Workshop Individual coaching
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Portfolio	50%	Numerical mark, MO	4
	Individual assessment oral / presentation	50%	Numerical mark, MO	4
	Individual assignment	Conditional	P/F/MO	4

Osiris-code:	BLE2.DENT-1LGM
Course name:	Entrepreneurship for LM
Study load:	5 EC (= 140 uur)
Coördinator:	Tobias de Nooy
Content description:	The logistics industry is confronted by immense changes; new technologies, new market entrants, new customer expectations and new business models. Like all changes, this brings both risks and opportunities. There are many ways the sector could develop to meet these challenges, some evolutionary, others more revolutionary. One thing is for sure: development is necessary. The frontrunners are the companies that are able to anticipate on the trends, developments and opportunities, also called 'entrepreneurship'. Entrepreneurship is also the engine to boost employment in the sector. So, it is crucial that companies have to adopt a more entrepreneurial approach and professionals have an entrepreneurial or intrapreneurial attitude. In addition to knowledge and skills, your success depends also on the extent to which you are able to demonstrate flexibility and an entrepreneurial mind-set. In this study component you will learn why an entrepreneurial mind-set is important, what are the characteristics of an entrepreneur and an intrapreneurial professional and you are developing and setting up a business model for a new (innovative) logistic concept.
Progr. Learn. Outcomes:	Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Manage - You manage a project or a process to achieve the intended result. Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You test a prototype of a new product or service. You set up a business model that demonstrates that your product or service creates value. — Zelcom: C1 You manage the process from opportunity identification to a validated product/service-market combination, by systematically quantifying risks and potential and creating value. — C2 You discover and develop internal and external entrepreneurial skills. — B2
Language:	English
Teaching activities:	Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	30%	Numerical mark, MO	4

	Written exam	50%	Numerical mark, MO	1
	Individual assessment game / simulation	20%	Numerical mark, MO	4

Osiris-code:	BLE2.DFUN-2LGE
Course name:	Fundamentals of DS & AI for LE
Study load:	5 EC (= 140 uur)
Coördinator:	Abhishek Biswas
Content description:	The module "Fundamentals of Applied Data Science & Artificial Intelligence in Logistics" gives second-year students an overview of the core concepts, techniques and ethical points of attention of data analysis and AI within logistics processes in ten weeks. During three guided assignments and one independent final assignment, they go through the entire CRISP-DM cycle and apply classification, clustering and time series prediction to sector-relevant datasets. In this way, students develop both technical skills (Python notebooks, model selection, evaluation) and communicative competencies to clearly present findings to technical and non-technical stakeholders. The module concludes with an individual assignment (100% of the grade) in which each student independently solves a logistical data science problem, taking into account legal and ethical preconditions.
Progr. Learn. Outcomes:	Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Implement - You implement improvements and/or innovations in the supply chain.
Unit Learn. Outcomes:	You build a machine learning model to solve a logistics problem in a structured manner. Zelcom: C2 You deploy the machine learning model in an operational system. C2
Language:	English
Teaching activities:	Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	5

Logistics

Year 3

Semester 5 Block A & B

Osiris-code:	BLE3.PLAC-1
Course name:	Placement
Study load:	30 EC (= 840 uur)
Coördinator:	Irene Meeuwesen / Tobias de Nooy
Content description:	You independently find an internship company and assignment in practice. The placement coordinator assesses your proposal in advance on scope, complexity and depth. During the internship period you carry out your assignment on location. You draw up a plan of action, conduct research and activities and present your findings (verbally and in writing/visually). During the internship you work both on reporting and professional products for the company and on your own development. In addition to professional products, you therefore also work on the development of competencies. You demonstrate these through the learning outcomes. You are supervised by a university supervisor and a company supervisor. During three return days you discuss in a group of fellow students and with your university supervisor the content of your internship assignment, your activities and results and you attend workshops on themes and skills related to your internship. Participation in the PPD3 and PPD4 placement workshops is a required preparation for the placement period.
Progr.Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain. Manage - You advise on possible improvements and/or applicable innovations in the supply chain. Develop - You develop as a logistics professional inspired by industry trends and personal reflection.

Unit Learn. Outcomes:	Zelcom:
You research supply chain challenges in a broader context, taking sustainability, internationalisation and technology into consideration.	C2
You (re)design a feasible and viable improvement or innovation for a process/product in the organisation.	C2
You (re)design a feasible and viable improvement or innovation for a process/product in the organisation.	LE=C2/LM=C1
You advise on possible improvements and/or applicable innovations in the organisation.	LE=C1/LM=C2
You implement improvements and/or innovations in the organisation.	B1

	You manage a project or process in order to achieve the intended result.	C2
	You develop as a logistics professional, inspired by trends in the sector and personal reflection.	C1

Language: English

Teaching activities: Coaching in peer groups
Workshop

Required literature: -

Other materials: -

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	4

Logistics

Year 3

Semester 6 Block C

Osiris-code:	BLE3.CCH1-2
Course name:	Specialisation- Challenge part 1
Study load:	5 EC (= 140 uur)
Coördinator:	Mariana Chinellato Ferreira
Content description:	You will work on a Challenge, based on a chosen specialisation topic, in a mixed group of Logistics Engineering and Logistics Management students. Working on a Challenge is an active learning approach in which you gain skills and knowledge through active engagement with an urgent real-life challenge, and collaborative work on creative and sustainable solutions. During this Challenge, you apply the Design Thinking method, which is a versatile problem-solving framework, which guides you in several phases to develop effective solution concepts. In part 1 of the challenge you will go through the Clarify phase. You will work through a template to unravel a big idea or essential question into a call to action. You will empathize with stakeholders from all perspectives
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Manage - You advise on possible improvements and/or applicable innovations in the supply chain.

Unit Learn. Outcomes:	Zelcom:
You investigate the shortcomings in complex supply chain issues within a logistics specialisation, explicitly incorporating current developments in sustainability, internationalisation, and technology.	C3
You systematically clarify improvement opportunities related to financial, information and physical flows in the chosen specialisation.	C3
You organise a team project, effectively dealing with uncertainties, interests and collaboration dynamics in order to achieve structural project results.	C2

Language:	English
Teaching activities:	Project with coaching Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	100%	Numerical mark, MO	4
	Individual process assessment	Conditional	P/F/MO	3

Osiris-code:	BLE3.CDDI-2
Course name:	Deep Dive
Study load:	5 EC (= 140 uur)
Coördinator:	Mariana Chinellato Ferreira
Content description:	During the Deep Dive, you will delve yourself into the important innovative topics in your Specialisation. The goal is to do an exploratory research to learn more about the topic, gain new insights, and generate hypotheses that can justify further research. You will therefore choose one specific subject to work out in among others a mind map, hypothesis and data validation plan, to finish an exploratory research and make a product to share your knowledge with others.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Manage - You advise on possible improvements and/or applicable innovations in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	You conduct an exploratory applied research study into an unexplained phenomenon or practical problem within a logistics specialisation, incorporating sustainability, internationalisation, and technological innovation where relevant.	D1
	You interpret information from scientific literature, business sources and field research systematically within your own explorative research leading to new supply chain insights.	D1
	You carry out a research project independently within a logistics specialisation.	C2

Language:	English
Teaching activities:	Lecture Workshop Individual coaching
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	4

Osiris-code:	BLE3.CPP6-2
Course name:	Personal & Professional Development 6
Study load:	5 EC (= 140 uur)
Coördinator:	Bas Groot / Karolien Kampstra
Content description:	During the Personal and Professional Development sessions of the third year Logistics bachelor programmes, you will reflect on the progress made in the development during your studies and recent placement project. You will establish a future outlook to define what competencies and skills you need and want to develop during semester 6 and during the fourth year of the bachelor programme. Several workshops will guide you through this process. You will be challenged to look back and to reflect and set goals to make the next steps in your development.
Progr. Learn. Outcomes:	Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	You determine your development direction for your graduation phase and after completing your studies based on a self-critical attitude.
Zelcom:	C2
Language:	English
Teaching activities:	Lecture Workshop Individual coaching
Required literature:	-
Other materials:	Profile Personality test

Examination:	Assessments	Weightage	Mark	AI level
	Individual assessment oral / presentation	100%	Numerical mark, MO	2

Logistics

Year 3

Semester 6 Block D

Osiris-code:	BLE3.DCH2-2
Course name:	Specialisation- Challenge part 2
Study load:	10 EC (= 280 uur)
Coördinator:	Mariana Chinellato Ferreira
Content description:	During the second part of the challenge within your specialisation, you will ideate and develop (prototype and test) a solution for the given challenge.
Progr. Learn. Outcomes:	Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	You design a desirable, feasible and viable innovation for a logistics process or product, fitting the chosen specialisation theme.	C3
	You present a substantiated recommendation on relevant innovations within the chosen challenge domain.	C3
	You validate an implementation plan based on an experience prototype for a logistics innovation, taking into account the interests of various stakeholders and the context of the challenge.	C1

Language:	English
Teaching activities:	Project with coaching Lecture Workshop
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	100%	Numerical mark, MO	4
	Individual process assessment	Conditional	P/F/MO	3

Osiris-code:	BLE3.DSCE-1LGM
Course name:	Supply Chain Execution for LM
Study load:	5 EC (= 140 uur)
Coördinator:	Sijbren Hogewerf
Content description:	This study component focuses on the decision-making process and will provide you with the knowledge and tools to make crucial decisions that move the industry forward. You will delve into the complexities of supply chain management, explore innovative logistics models and develop a keen eye for process improvement. During this course you will practice setting up unique business cases including ROI, sensitivity analysis and risk analysis. To set up business cases, you complete educational activities in which you first go through the standard process and the exceptions manually and then with system support. During the entire period, in addition to the business cases, you will work on a business simulation game in which you have to work well together from different roles in order to achieve a successful result and perhaps even come first.
Progr. Learn. Outcomes:	Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	You analyse alternatives on logistical flows to decide on trade-offs for operational/tactical improvements.	D2
	You convince the management of an organisation to adopt an improvement proposal for the logistics process based on a business case.	D1
	You create stakeholder support using a proof of concept for the proposed improvement or innovation.	

Language:	English
Teaching activities:	Lecture Workshop Guest lecture
Required literature:	-
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	40%	Numerical mark, MO	3
	Individual assignment	60%	Numerical mark, MO	3

Osiris-code:	BLE3.DDSS-1LGE
Course name:	Decision Support Systems for LE
Study load:	5 EC (= 140 uur)
Coördinator:	Jan van Elderen
Content description:	A Decision Support System (DSS) is a computer-based technological solution deployed to support decision making in solving complex problems. For example, for managers in making complex, non-routine decisions. In this course, we look at three of these systems. In the part Automation Techniques, you will learn to understand the fundamentals and components of a modern automated process and to apply them in different situations so that you will be a partner of the engineer in (future) automation projects. As an application, you will learn to create a PLC control system. In the part Logistics Simulation section, a simple simulation study is set up and carried out using the simulation software Flexsim. With simulation, it is possible to analyze dynamic systems and look into the future by simulating logistical alternatives through a computer model. Vehicle Route Planning as an operational issue with changing demands and destinations is solved every day by countless LSPs. But there are also tactical and strategic issues involved in distribution planning. In this part you will learn to analyze some of these issues using the route planning package OrtecRS.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain.

Unit Learn. Outcomes:		Zelcom:
	You investigate the applicability of technological applications in a logistics context.	C2
	You analyse software for automation, simulation and vehicle route planning to solve real-world business problems.	D2
	You build a solution in advanced logistics software to solve real-world business problems.	D1

Language:	English
Teaching activities:	Lecture Workshop
Required literature:	-
Other materials:	Various materials distributed on BrightSpace like papers, videos, software and Excel files

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	40%	Numerical mark, MO	5
	Individual assignment	40%	Numerical mark, MO	5
	Individual assignment	20%	Numerical mark, MO	5

Logistics

Year 4

Semester 7 Block A & B

Osiris-code:	BXE4.GROU-1CHM / BXE4.PROC-1CHM / BXE4.INDV-1CHM
Course name:	Change Management
Study load:	30 EC (= 840 uur)
Coördinator:	Karolien Kampstra
Content description:	During this minor you will develop the competence to successfully plan, execute, and evaluate organizational change. You will develop this competence by participating in what we call a 'Change experience': an 18-week project where you work with four or five fellow students on a real-life case of an organization, city, or industry that is on the eve of a major change. In that project your goal is to make real impact by making stakeholders enthusiastic for your change plans, to the extent that they want to carry your plans forward. The overall goal of this minor is to learn all about how to deal with change in future work settings. This encompasses the following topics: -Change Management -Project Management -Learning & Development -Business Development -Organizational Behavior
Learning Outcomes:	1. Plan and execute change initiatives: Successfully plan, implement, and evaluate change initiatives within an organization; 2. Substantiate change strategy choices: Justify the selection of change strategies based on the issue, organizational history, change agents, and stakeholder dynamics; 3. Diagnose and analyze: Utilize diagnostic models to understand complex situations and analyze organizational strengths and weaknesses; 4. Formulate and implement strategies: Develop strategic objectives, create intervention and communication plans, and establish business models; 5. Assess feasibility and manage resistance: Evaluate the feasibility of change initiatives and develop plans to handle resistance effectively.
Language:	English primary language (some project groups bilingual English/ Dutch)
Required literature:	Leading Change (Kotter, ISBN 9781422186435
Other materials:	-

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	20 ECTS	Numerical mark, MO	3
	Individual assignment	10 ECTS	Numerical mark, MO	3
	Process assessment	Conditional	P/F/MO	1

Osiris-code:	BXE4.GROU-1CRS / BXE4.INDV-1CRS / BXE4.PROC-1CRS
Course name:	Crowd Safety in Hubs & Events
Study load:	30 EC (= 840 uur)
Coördinator:	Justin van de Pas / Luuk Koopman
Content description:	An English-taught minor covering the following topics: -crowd safety: background and dynamics; -crowd safety: modelling and monitoring; -crowd safety: design and organisation; -crowd simulations and the use of simulation; -crowd behaviour and psychology; -crowd safety: decisions and response; -crowd simulations; -(event) logistics, mobility and accessibility; -complexity theory & innovations; -law, permits and regulations.
Learning Outcomes:	1. A clear understanding of key concepts in event logistics and the application of logistics analysis, process management and capacity calculation; 2. A clear understanding of key concepts in mobility and urban design through the application and analysis of integrated coordination, design and planning processes, and urban and spatial design; 3. Be able to discuss the application of crowd simulations by analysing crowd simulations, applying measurement and monitoring tools, queueing theory and crowd simulations; 4. Be able to discuss the application of stakeholder analysis, procedures, and legislation and regulations; 5. A clear understanding of key concepts in crowd management and the application of crowd modelling; 6. The ability to discuss the application of crowd safety management (covering concepts such as planning, permits and operations) and its relevance to the broader legal, organisational, regulatory and risk management framework; 7. The ability to discuss the appropriate risk assessment methods for crowd safety, how this affects legislation and guidelines, and/or which areas of crowd safety require improvement; 8. Recognising group behaviour and understanding causality; 9. A clear understanding of key crowd management concepts and the application of crowd modelling to the chosen event or venue; 10. Be able to discuss the application of crowd safety management (covering concepts such as planning, permits and operations) and its relevance to the wider legal and regulatory framework and risk management; 11. Analysing an event or venue, including the four key elements of modelling; 12. Demonstrate that you understand the basic principles and applications of the tools. Provide some details on the use of models, the information they provide and how this aids in the risk analysis of a dynamic crowd; 13. Use of clear charts; 14. Conveying information about the tools to users and/or the team, with the aim of communicating with the public.

Language: English

Required literature: Introduction to Crowd Science (Still, ISBN 9780367866709)

Other materials: -

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	15 ECTS	Numerical mark, MO	4
	Individual assignment	15 ECTS	Numerical mark, MO	4
	Proces assessment	Conditional	P/F/MO	1

Osiris-code:	BXE4.GROU-1IUR / BXE4.INDV-1IUR
Course name:	International Urban Redevelopment
Study load:	30 EC (= 840 uur)
Coördinator:	Paul van de Coevring
Content description:	Tackle global urban challenges in this internationally-oriented minor. Explore a topic of your choice and work in teams to create bold, practical solutions for car-dependent cities through real-world case studies. Blending urban design, mobility, community engagement, and behavioral change, this minor welcomes students from diverse backgrounds eager to shape the sustainable cities of tomorrow. Top teams have to opportunity to present their work abroad. The following content is covered: • The transition from car-dependent urban sprawl to sustainable urban environments; • Key differences in land use, mobility patterns, and planning approaches across global cities; • Societal issues such as air quality, obesity, social cohesion, and public space quality; • Hardware, software, and orgware interventions—and how they reinforce one another; • Developing visions and concepts through STEEP and SWOT analyses; • Designing at multiple scales—from strategic masterplans to detailed street-level solutions; • Tactical Urbanism and Urban Guerrilla actions as tools for real-life impact; • Visual communication techniques including posters, interactive media, and stakeholder presentations.
Learning Outcomes:	1. You identify and critically assess the societal and spatial impacts of urban sprawl and car dependency across international contexts (Initiate 1.1) by conducting a SWOT and STEEP analysis. (Level 3 – high complexity, medium autonomy). 2. You research and analyze a specific topic related to sustainable urban redevelopment, such as tactical urbanism, car dependency, or public space design (Research 6.3) by individually writing a thematic paper based on solid academic and grey literature. (Level 3 – high complexity, high autonomy) 3. You co-develop an integrated spatial, behavioral, and governance-based strategy to retrofit a real-world urban area (Design 2.1) by developing a vision, concepts and detailed designs combining hardware, software, and orgware. (Level 3 – high complexity, medium autonomy) 4. You substantiate and align the group's urban redevelopment concept using insights and findings from the individual research papers (Design 2.2) 5. You develop compelling communication tools to present your vision to local and international audiences stakeholders including pitches, visuals,

posters, or interactive formats (Communicate 8.3). You demonstrate this through a group pitch and supporting materials for local and international audiences. (Level 3 – high complexity, average autonomy).

Language: English

Required literature: -

Other materials: -

Examination:	Assessments	Weightage	Mark	AI level
	Group assignment	15 ECTS	Numerical mark, MO	5
	Individual assignment	15 ECTS	Numerical mark, MO	5

Logistics

Year 4

Semester 8 Block C & D

Osiris-code:	BXX4.GRAD-1
Course name:	Graduation
Study load:	30 EC (= 840 uur)
Coördinator:	Irene Meeuwesen / Luuk Koopman
Content description:	You independently find a graduation placement and assignment at an organisation. The graduation coordinator assesses your proposal in advance on scope, complexity and depth. During the graduation period you work full-time on location. You work both on the assignment for the company and on your own development (learning outcomes). You demonstrate both using an accountability report, professional products and a portfolio. You are supervised individually by a university supervisor and also by a company supervisor. During a number of meetings you discuss with your university supervisor the content of your graduation assignment, your progress and personal development. Period block AB: If you carry out your graduation assignment in the first half of the year study year, you will work on the development of competencies instead of learning outcomes.
Progr. Learn. Outcomes:	Research - You research supply chain challenges in a broader context taking sustainability, internationalisation and technology into consideration. Analyse - You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain. Design - You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain. Advise - You advise on possible improvements and/or applicable innovations in the supply chain. Implement - You implement improvements and/or innovations in the supply chain. Manage - You advise on possible improvements and/or applicable innovations in the supply chain. Develop - You develop as a logistics professional inspired by industry trends and personal reflection.
Unit Learn. Outcomes:	- Zelcom:
Language:	English
Teaching activities:	Graduation placement coaching Workshop
Required literature:	Graduation handbook
Other materials:	Brightspace course Graduation Logistics

Examination:	Assessments	Weightage	Mark	AI level
	Individual assignment	100%	Numerical mark, MO	4

Appendices

- Curriculum overview
- Programme Learning Outcomes
- Coverage matrix
- Link to assessment programme & Year planning

Curriculum overview Bachelor Logistics Management 2026-2027

Project: Case: PPD: Practice:

Curriculum year 1 Logistics Management

Semester 1		Semester 2	
Experience logistics and supply chain management		Learn and apply basic principles in transport, distribution, storage & service logistics	
Block A	**Block B**	**Block C**	**Block D**
Getting Started 5 EC	Personal & Professional Development 1 5 EC	Material Logistics - Basics 5 EC	Personal & Professional Development 2 5 EC
Basics of Supply Chain Management 5 EC	Modelling and Planning 5 EC	Connection to Industry & Research 1 5 EC	Material Logistics - Improvement & Innovation 10 EC
Experience Supply Chain Management 1 5 EC	Experience Supply Chain Management 2 5 EC	Service Logistics – Basics & Innovation 5 EC	

Curriculum year 2 Logistics Management

Semester 3		Semester 4	
Getting started with production logistics & international supply chains		Advancing sustainable supply chains & making a choice of logistics specialisation	
Block A	**Block B**	**Block C**	**Block D**
Operations Management 5 EC	Personal & Professional Development 3 5 EC	Advanced Supply Chain Management 5 EC	Personal & Professional Development 4 5 EC
Connection to Industry & Research 2 5 EC	Cross-Border Supply Chains 5 EC OR Military Logistics (Project & Event Logistics) 5 EC	Research Methods 5 EC	Connection to Industry & Research 3 5 EC
Information Management 5 EC	Production Project 5 EC	Running Sustainable Business 5 EC	Entrepreneurship 5 EC

Curriculum year 3 Logistics Management

Semester 5		Semester 6	
Building your own profile: work placement in the Netherlands or abroad		Building your own profile: specialisation in one of the logistics areas	
Block A	**Block B**	**Block C**	**Block D**
Placement 30 EC		Personal & Professional Development 6 5 EC	Specialisation - Challenge part 2 10 EC
		Specialisation - Challenge part 1 5 EC	
		Deep Dive 5 EC	Supply Chain Execution 5 EC

Curriculum year 4 Logistics Management

Semester 7		Semester 8	
Building your own profile: within BUas, in the Netherlands or abroad		Building your own profile: graduating with a company	
Block A	**Block B**	**Block C**	**Block D**
Minor or Exchange 30 EC		Graduation thesis 30 EC	

Curriculum overview Bachelor Logistics Engineering 2026-2027

Project: Case: PPD: Practice:

Curriculum year 1 Logistics Engineering

Semester 1		Semester 2	
Experience logistics and supply chain management		Transport, distribution and storage & service logistics	
Block A	**Block B**	**Block C**	**Block D**
Getting Started 5 EC	Personal & Professional Development 1 5 EC	Material Logistics - Basics 5 EC	Personal & Professional Development 2 5 EC
Basics of Supply Chain Management 5 EC	Modelling and Planning 5 EC	Connection to Industry & Research 1 5 EC	Material Logistics - Improvement & Innovation 10 EC
Experience Supply Chain Management 1 5 EC	Experience Supply Chain Management 2 5 EC	Service Logistics – Basics & Innovation 5 EC	

Curriculum year 2 Logistics Engineering

Semester 3		Semester 4	
Production logistics and international supply chains		Sustainable supply chains and choice of logistics specialisation	
Block A	**Block B**	**Block C**	**Block D**
Operations Management 5 EC	Personal & Professional Development 3 5 EC	Advanced Supply Chain Management 5 EC	Personal & Professional Development 4 5 EC
CIR2- Foundation of ADS & AI 5 EC	Cross-Border Supply Chains 5 EC	Research Methods 5 EC	Connection to Industry & Research 3 5 EC
Information Management 5 EC	Production Project 5 EC	Running Sustainable Business 5 EC	Fundamentals of Data Science & AI 5 EC

Curriculum year 3 Logistics Engineering

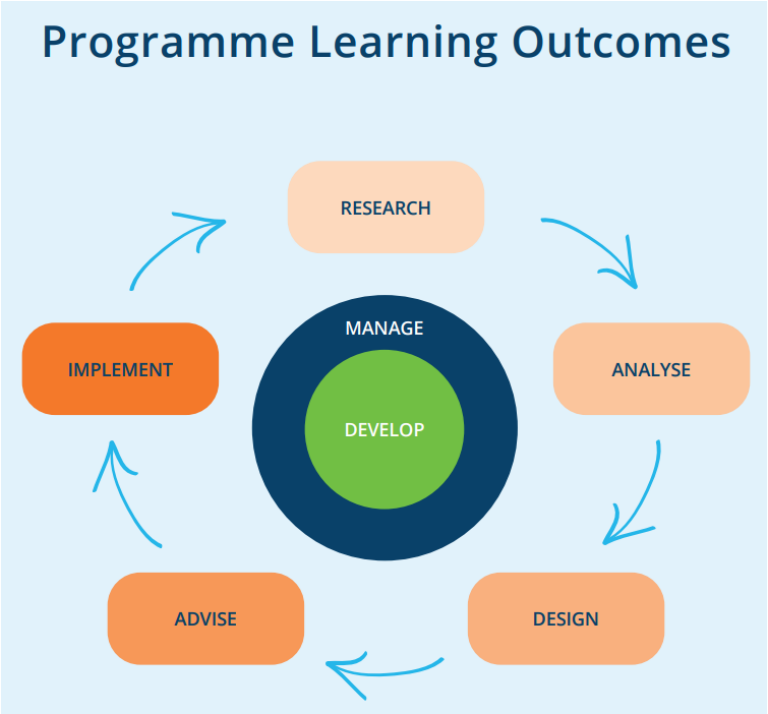
Semester 5		Semester 6	
Building your own profile: work placement in the Netherlands or abroad		Building your own profile: specialisation in one of the logistics areas	
Block A	**Block B**	**Block C**	**Block D**
Placement 30 EC		Personal & Professional Development 6 5 EC	Specialisation - Challenge part 2 10 EC
		Specialisation - Challenge part 1 5 EC	
		Deep Dive 5 EC	Decisions Support Systems 5 EC

Curriculum year 4 Logistics Engineering

Semester 7		Semester 8	
Building your own profile: within BUas, in the Netherlands or abroad		Building your own profile: graduating with a company	
Block A	**Block B**	**Block C**	**Block D**
Minor or Exchange 30 EC		Graduation 30 EC	

Programme Learning Outcomes (PLOs)

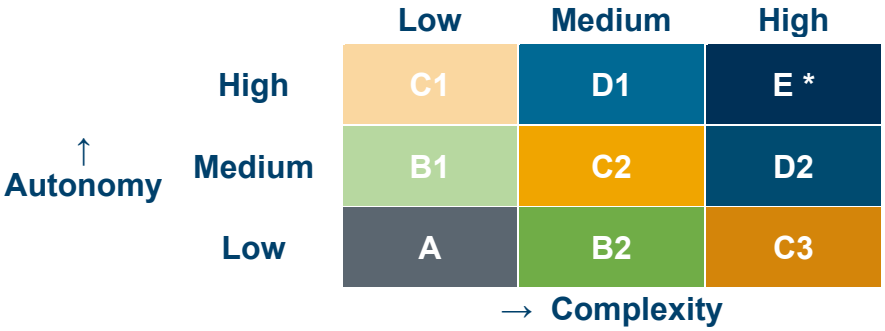
Logistics Engineering (LE) and Logistics Management (LM)



PLO	Description	End level LE	End level LM
Research	You research supply chain challenges in a broader context, taking sustainability, internationalisation and technology into consideration.	3	3
Analyse	You analyse financial, information, and physical flows to identify improvement opportunities and/or possible innovations in the supply chain.	3	3
Design	You (re)design a feasible and viable improvement or innovation for a process/product in the supply chain.	3	2
Advise	You advise on possible improvements and/or applicable innovations in the supply chain.	2	3
Implement	You implement improvements and/or innovations in the supply chain.	2	2
Manage	You manage a project or process to achieve the intended result.	3	3
Develop	You develop as a logistics professional inspired by industry trends and personal reflection.	3	3

AuCom model

AuCom (Autonomy–Complexity) is the English equivalent of the Dutch ZelCom model (Zelfstandigheid–Complexiteit) developed by Bulthuis (2013). Both terms refer to the same framework and are used interchangeably in this document.



* Level E = Master level

Source: Bulthuis, P. (2013). *Handleiding HBO-niveau. Handleiding voor het onderzoeken, realiseren en verantwoorden van het HBO-niveau*. Saxion.

AuCom Levels

Level	Description	Complexity	Autonomy
A	**Instructed**	Low — single, structured task; known problem; standard procedures; basic knowledge and skills required.	Low — acts on instruction; receives supervision and guidance; no independent decisions; operational, executive role.
B1	**Guided (low autonomy, moderate complexity)**	Moderate — multiple tasks or one task in changing situations; partly unknown problem; specialised knowledge needed; standard procedures to be adapted.	Low — acts on instruction; receives supervision and guidance; no independent decisions; executive or supporting role.
B2	**Guided (moderate autonomy, low complexity)**	Low — single, structured task; known problem; standard procedures; basic knowledge and skills required.	Moderate — acts partly on own initiative; intermittent or on-demand coaching; makes independent choices for parts of the task; tactical role; executive or advisory function.
C1	**Supervised (high complexity, low autonomy)**	High — diverse tasks in changing, unstructured situations; unknown problems to be analysed; no standard approach; advanced specialised and cross-disciplinary knowledge; new procedures to be developed.	Low — acts on instruction; receives supervision and guidance; no independent decisions; operational, executive role.
C2	**Semi-independent (moderate × moderate)**	Moderate — multiple tasks or one task in changing situations; partly unknown problem; specialised knowledge needed.	Moderate — acts partly on own initiative; on-demand coaching; makes independent choices for parts of the task; tactical role; responsible for own outcomes; guides others.
C3	**Independent (high autonomy, low complexity)**	Low — single, structured task; known problem; standard procedures; basic knowledge required.	High — acts on own initiative; little supervision; self-directs own development; takes independent decisions; strategic or advisory role; responsible for team/project outcomes; directs and coaches others.
D1	**Independent (high complexity, moderate autonomy)**	High — diverse tasks in changing, unstructured situations; unknown problems to be analysed; no standard approach; advanced specialised and cross-disciplinary knowledge; new procedures and technologies.	Moderate — acts partly on own initiative; on-demand coaching; independent choices for parts of the task; tactical or strategic role; responsible for own outcomes; guides others.
D2	**Fully independent (high × high)**	Moderate to high — diverse, complex and unstructured tasks in changing situations; advanced specialised and cross-disciplinary knowledge; new knowledge and procedures to be developed.	High — acts entirely on own initiative; no supervision; self-directs development and learning; takes independent decisions; strategic and advisory role; leads and coaches others; responsible for project outcomes.

Coverage Matrix Programme Learning Outcomes (PLOs)

Logistics Management 2026-2027

Study component types

Case	Project	PPD	Practice

Logistics Management 2026-2027 — Year 1

Logistics Management		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 1 | Semester 1 Block A								
Getting Started	5 EC	A			A			A
Basics of Supply Chain Management	5 EC		A					
Experience Supply Chain Management 1	5 EC		B2				A	
Year 1 | Semester 1 Block B								
Personal & Professional Development 1	5 EC							B1
Modelling and Planning	5 EC		B1		B1		B2	
Experience Supply Chain Management 2	5 EC		B2	B1	B1	B1	B2	
Year 1 | Semester 2 Block C								
Material Logistics - Basics	5 EC		B1					
Connection to Industry & Research 1	5 EC						B1	B1
Service Logistics - Basics & Innovation	5 EC	B2	B1	B1	B1			
Year 1 | Semester 2 Block D								
Personal & Professional Development 2	5 EC			B2				B2
Material Logistics - Improvement & Innovation	10 EC	B2	B2	B2	B2		B2	

Logistics Management 2026-2027 — Year 2

Logistics Management		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 2 | Semester 3 Block A								
Operations Management	5 EC		C2					
Connection to Industry & Research 2	5 EC	B2			B1		B1	
Information Management	5 EC		C2	C2		B1	B1	
Year 2 | Semester 3 Block B								
Personal & Professional Development 3	5 EC							B1
Cross-Border Supply Chains	5 EC		C2		B2		B2	
Military Logistics (Project & Event Logistics) *	5 EC		C2		B2		B2	
Production Project	5 EC		C2		B2		B2	
Year 2 | Semester 4 Block C								
Advanced Supply Chain Management	5 EC		C3	C1	C1			
Research Methods	5 EC	C2						
Running Sustainable Businesses	5 EC		C2		C1			
Year 2 | Semester 4 Block D								
Personal & Professional Development 4	5 EC							B1
Connection to Industry & Research 3	5 EC	C2		C2	C2	B2	C1	
Entrepreneurship	5 EC			C1			C2	B2

* This study component is part of the Project & Event Logistics specialisation and replaces Cross-Border Supply Chains for students who have chosen this specialisation.

Logistics Management 2026-2027 — Year 3 & 4

Logistics Management		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 3 | Semester 5 Block A & B								
Placement	30 EC	C2	C2	C1	C2	B1	C2	C1
Year 3 | Semester 6 Block C								
Personal & Professional Development 6	5 EC							C2
Deep Dive	5 EC	D1	D1				C2	
Specialisation - Challenge part 1	5 EC	C3	D2				C2	
Year 3 | Semester 6 Block D								
Specialisation - Challenge part 2	10 EC			C3	C3	C1		
Supply Chain Execution	5 EC		D2		D1	C2		
Year 4 | Semester 7 Block A & B								
Minor / Exchange	30 EC							
Year 4 | Semester 8 Block C & D								
Graduation	30 EC	D2	D2	C2	D2	C2	D1	D1

Coverage Matrix Programme Learning Outcomes (PLOs)

Logistics Engineering 2026-2027

Study component types

Case	Project	PPD	Practice

Logistics Engineering 2026-2027 — Year 1

Logistics Engineering		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 1 | Semester 1 Block A								
Getting Started	5 EC	A			A			A
Basics of Supply Chain Management	5 EC		A					
Experience Supply Chain Management 1	5 EC		B2				A	
Year 1 | Semester 1 Block B								
Personal & Professional Development 1	5 EC							B1
Modelling and Planning	5 EC		B1		B1		B2	
Experience Supply Chain Management 2	5 EC		B2	B1	B1	B1	B2	
Year 1 | Semester 2 Block C								
Material Logistics - Basics	5 EC		B1					
Connection to Industry & Research 1	5 EC						B1	B1
Service Logistics - Basics & Innovation	5 EC	B2	B1	B1	B1			
Year 1 | Semester 2 Block D								
Personal & Professional Development 2	5 EC			B2				B2
Material Logistics - Improvement & Innovation	10 EC	B2	B2	B2	B2		B2	

Logistics Engineering 2026-2027 — Year 2

Logistics Engineering		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 2 | Semester 3 Block A								
Operations Management	5 EC		C2					
CIR2- Foundation of ADS & AI	5 EC	B2			B1		B1	
Information Management	5 EC		C2	C2		B1	B1	
Year 2 | Semester 3 Block B								
Personal & Professional Development 3	5 EC							B1
Cross-Border Supply Chains	5 EC		C2		B2		B2	
Production Project	5 EC		C2		B2		B2	
Year 2 | Semester 4 Block C								
Advanced Supply Chain Management	5 EC		C3	C1	C1			
Research Methods	5 EC	C2						
Running Sustainable Businesses	5 EC		C2		C1			
Year 2 | Semester 4 Block D								
Personal & Professional Development 4	5 EC							B1
Connection to Industry & Research 3	5 EC	C2		C2	C2	B2	C1	
Fundamentals of Data Science & AI	5 EC			C2		C2		

Logistics Engineering 2026-2027 — Year 3 & 4

Logistics Engineering		PLO Research	PLO Analyse	PLO Design	PLO Advise	PLO Implement	PLO Manage	PLO Develop
Year 3 | Semester 5 Block A & B								
Placement	30 EC	C2	C2	C2	C1	B1	C2	C1
Year 3 | Semester 6 Block C								
Personal & Professional Development 6	5 EC							C2
Deep Dive	5 EC	D1	D1				C2	
Specialisation - Challenge part 1	5 EC	C3	D2					
Year 3 | Semester 6 Block D								
Specialisation - Challenge part 2	10 EC			C3	C3	C1	C2	
Decision Support Systems	5 EC	C2	D2	D1				
Year 4 | Semester 7 Block A & B								
Minor / Exchange	30 EC							
Year 4 | Semester 8 Block C & D								
Graduation	30 EC	D2	D2	D2	C2	C2	D1	D1

Link to assessment programme:

Logistics assessment programme 26-27

Link to year planning:

Educational year planning 26-27



Games



Leisure & Events



Tourism



Media



Data Science & AI



Hotel



Logistics



Built Environment



Facility

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