JACOBS UNIVERSITY

THE 3C CURRICULAR STRUCTURE

INTRODUCTORY SESSION FOR UNDERGRADUATE STUDENTS

PART I: THE CHOICE YEAR AND THE JACOBS TRACK

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AUGUST 31, 2017

ORIENTATION WEEK

JACOBS UNIVERSITY

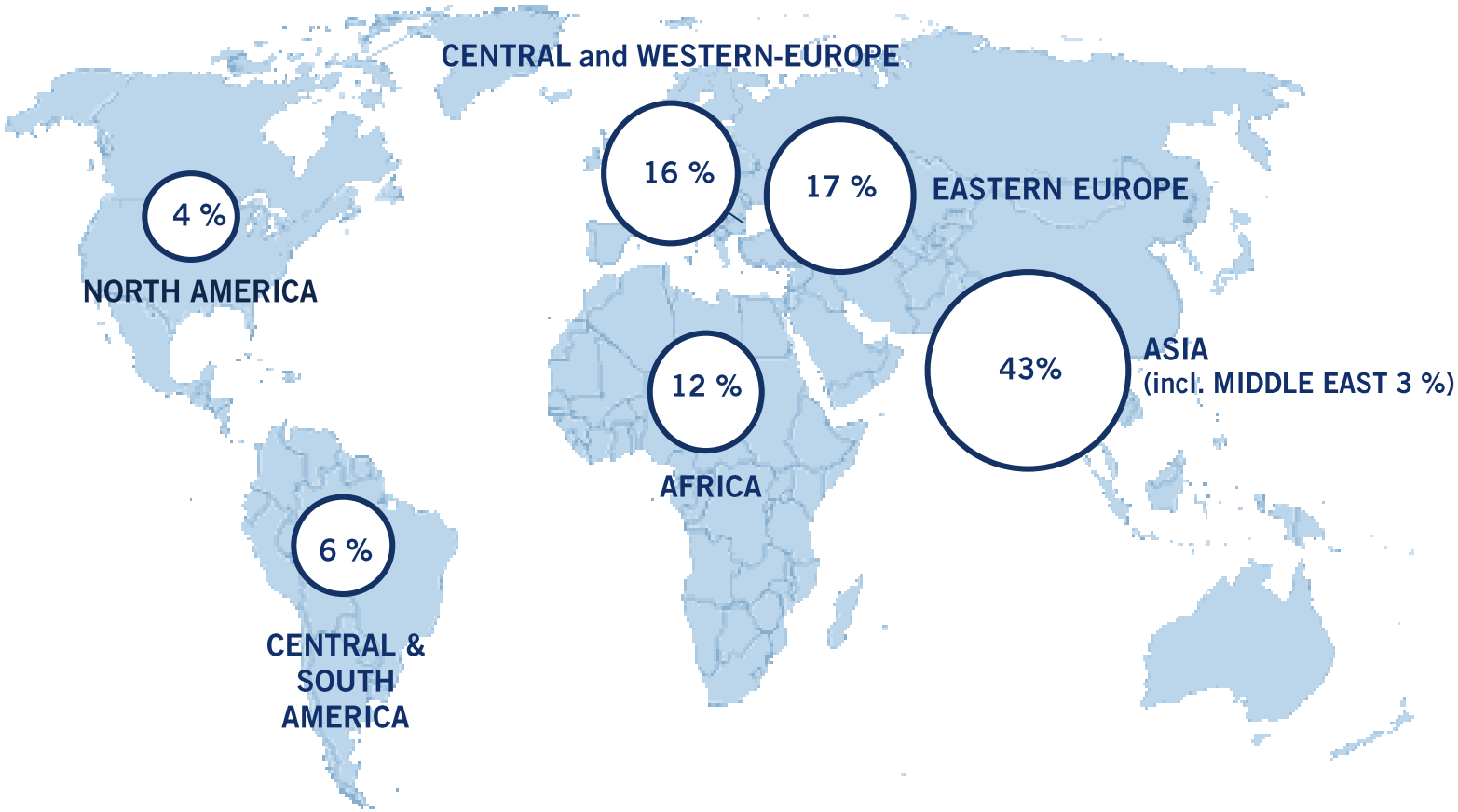
Thursday 31th August: "Academics Day"

09.00 – 10.30	**Introduction to the Academic Structure, Part I** (Sports & Convention Center)
10.30 – 12.00	**Study Program Fair** (Sports & Convention Center)
13.00 – 14.15	**Introduction to the Academic Structure, Part II** (Sports & Convention Center)
14.30 / 15.30 / 16.30	**Our Study Programs: Info Sessions** (East Hall / West Hall – Detailed information will be provided at the Study Program Fair)
17.15	**Lab Tour**

JACOBS UNIVERSITY'S STUDENTS

JACOBS UNIVERSITY

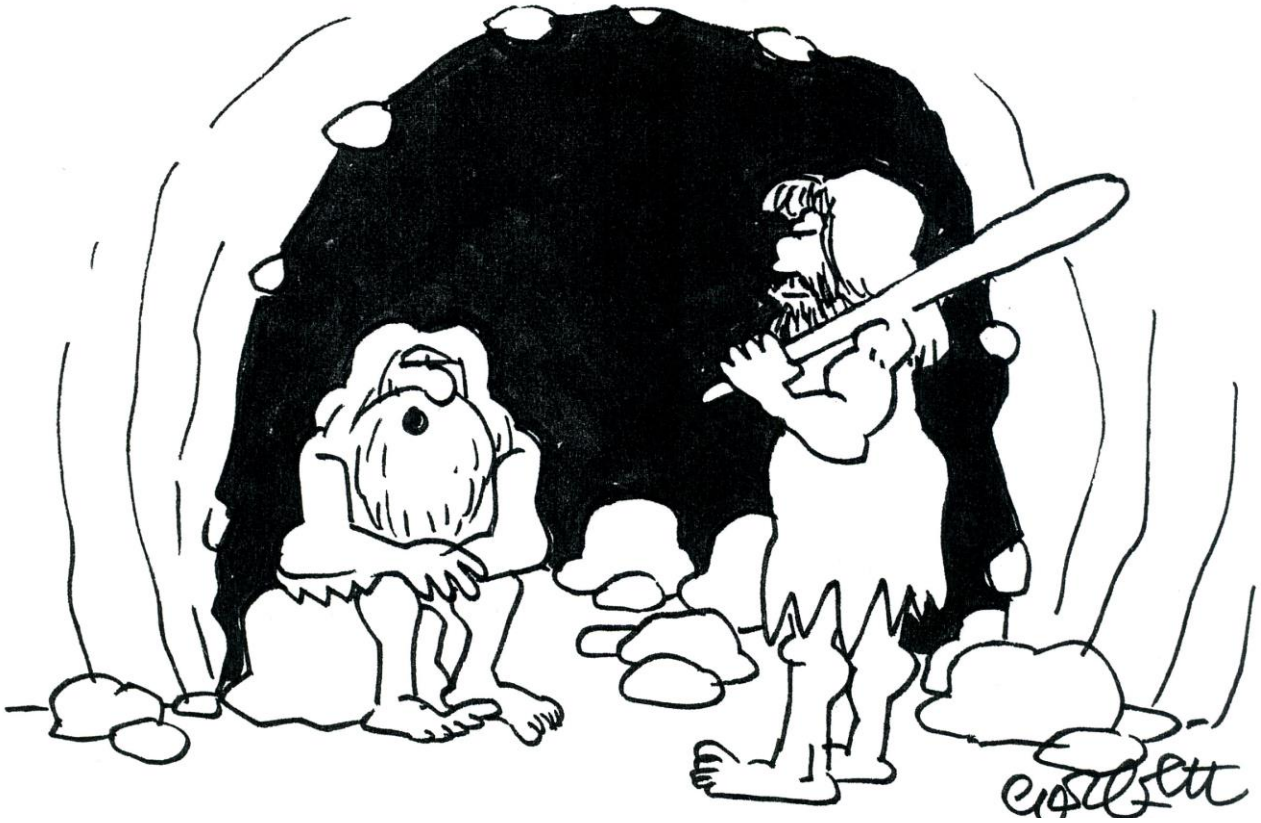
Where Jacobs University's 1st year students come from



WHAT ARE MY STUDY OPTIONS?

JACOBS UNIVERSITY

CAVE UNIVERSITY



“WE OFFER TWO MAJORS: HUNTING OR GATHERING”

OUR UNDERGRADUATE STUDY PROGRAMS

JACOBS UNIVERSITY

Focus area **HEALTH** (BSc programs)	Biochemistry and Cell Biology
	Chemistry
	Earth & Environmental Sciences
	Medicinal Chemistry and Chemical Biology*
	Physics
Focus area **MOBILITY** (BSc programs)	Computer Science
	Electrical and Computer Engineering
	Intelligent Mobile Systems*
	Industrial Engineering and Management
	Mathematics
Focus area **DIVERSITY** (BA programs)	Global Economics and Management
	Integrated Social Sciences
	International Business Administration
	International Relations: Politics & History
	Psychology*
Preparatory programs	Foundation Year
	Medical Natural Sciences
	Medical Preparatory Year

* Flagship program (the prime thematic exponent of the focus area in undergraduate education)

JACOBS UNIVERSITY – INTERNATIONAL RANKINGS

The Times Higher Education (THE) is a weekly magazine reporting specifically on news and issues related to higher education.

Which universities could challenge the elite by 2030? (Aug 11, 2016)

Institution	Country
Western Sydney University	Australia
Baylor University	US
Kangwon National University	South Korea
Charles Darwin University	Australia
Lappeenranta University of Technology	Finland
Saitama Medical University	Japan
Jacobs University Bremen	Germany
Hofstra University	US
Louisiana Tech University	US
Boise State University	US

In total 20 universities (excerpt shown)

https://www.timeshighereducation.com/news/

NATIONAL AND INTERNATIONAL UNIVERSITY RANKINGS

JACOBS UNIVERSITY HAS CONSISTENTLY SCORED TOP MARKS

German Rankings

in Germany's most comprehensive and detailed university ranking by the Center for Higher Education (CHE) and the renowned weekly »Die Zeit« since its first participation in 2005:

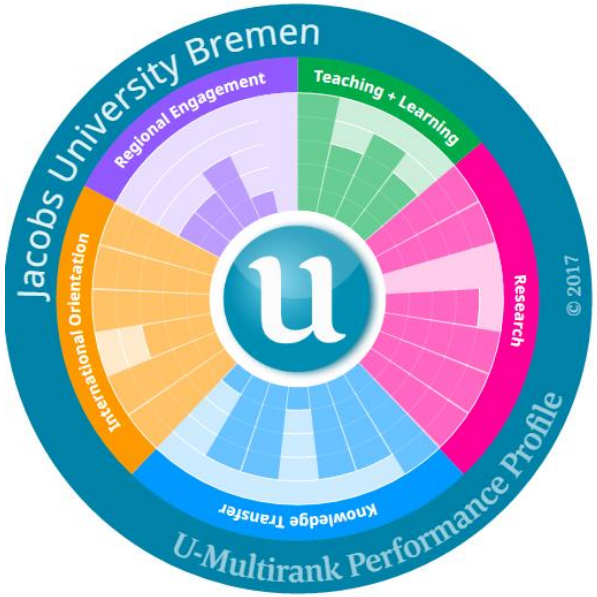
- **2005**: Political and Social Sciences
- **2007**: Electrical Engineering and Information Technology
- **2009**: Biology and Geosciences
- **2011**: Political and Social Sciences
- **2012**: Biology, Chemistry, Geosciences, Computer Sciences, Mathematics and Physics
- **2013:** Psychology and History
- **2014:** Global Economics and Management
- **2015:** Geosciences, Computer Science, Political Science, Mathematics, Physics
- **2016:** Psychology, Biochemistry and Cell Biology, Mathematics
- **2017:** Industrial Engineering and Management, International Business Administration, and Global Economics and Management

CHE Ranking

International Rankings

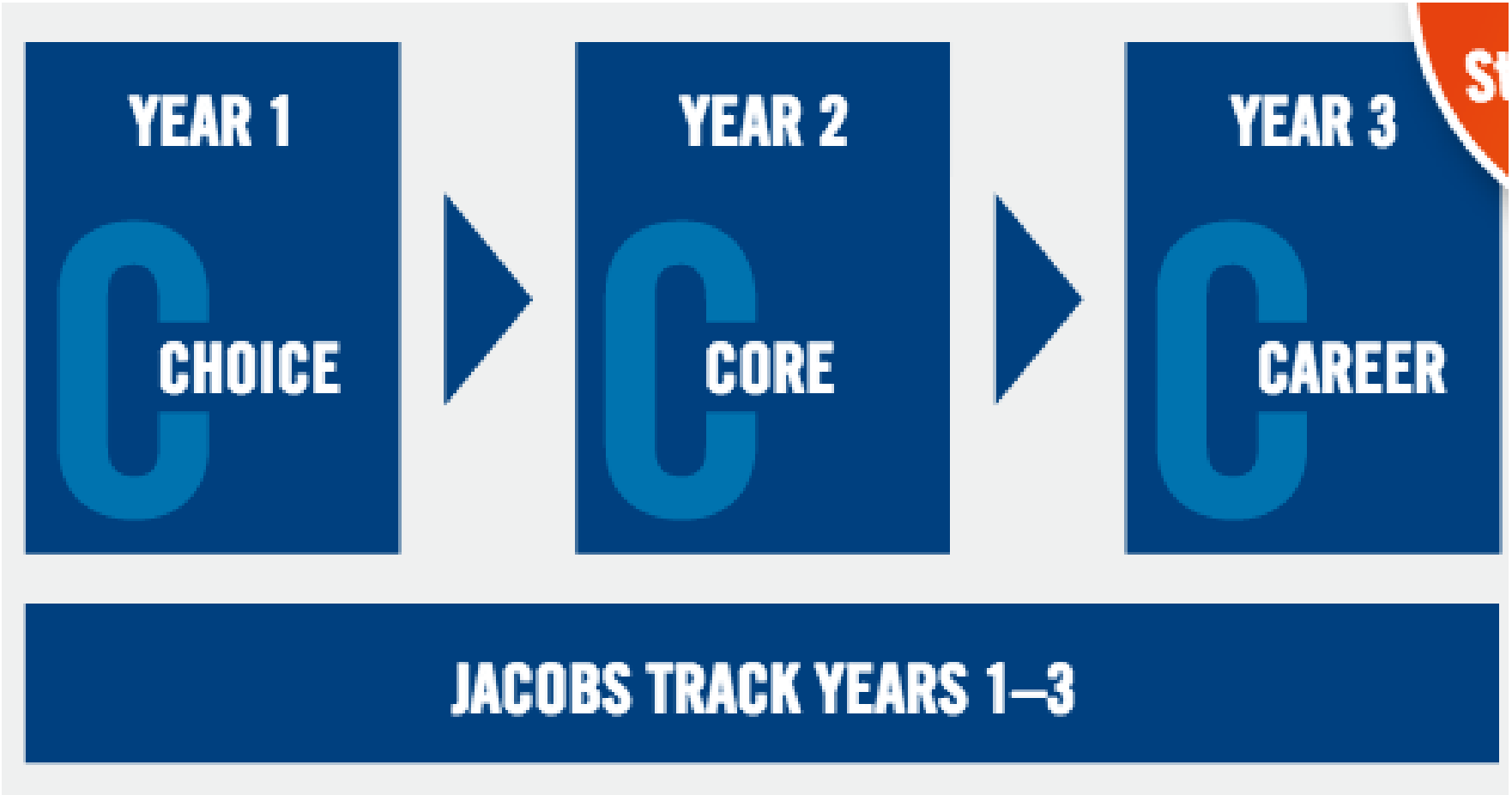
U-Multirank (2017)

U-Multirank is an independent international ranking by an international consortium with participation of e.g. Center for Higher Education Policy Studies (CHEPS) and Centre for Science and Technology Studies (CWTS), Netherlands, as well as the Center for Higher Education (CHE), Germany.



www.umultirank.org

OUR 3C CURRICULAR STRUCTURE



OUR 3C CURRICULAR STRUCTURE

- Multidisciplinary orientation
  (**CHOICE -** year 1)
- Disciplinary focus with 2nd disciplinary option
  (**CORE -** year 2)
- Employability / international perspective
  (**CAREER -** year 3)
- Methods, skills, languages, and transdisciplinary content
  (**Jacobs Track** - throughout all three study years)

OUR 3C CURRICULAR STRUCTURE

JACOBS UNIVERSITY

BA/ BSc Degree

Year 3	**CAREER 1** Internship / Study Abroad (**World Track**)	**CAREER 2** Specialization	**CAREER 3** Project/ Research BA/BSc Thesis	**Jacobs Track** Transdisciplinary Triangle *Business, Technology, Societal Context* Languages Methods *Mathematics, Statistics* Skills
Year 2	**CORE 1**	**CORE 2**	**CORE 3**	
Year 1	**CHOICE 1**	**CHOICE 2**	**CHOICE 3**	

YEAR 1 Take three CHOICE modules, one free selection

YEAR 2 Take three CORE modules, one CORE module can be substituted by a CORE module from a second study program to pursue a minor

YEAR 3 Alternatively Campus Track with a 4th CORE module instead of internship/study abroad module

OUR 3C CURRICULAR STRUCTURE: MODULARIZATION IN GENERAL

All study programs at Jacobs University are fully modularized. The modularization scheme is identical across all undergraduate degrees.

- Facilitates exchange of modules between different study programs.
- Simplifies study planning and increases planning security.
- Enables student mobility within the European Credit Transfer System (ECTS).

OUR 3C CURRICULAR STRUCTURE: MODULARIZATION-DETAILS

- Jacobs University has 15-ECTS modules running across an entire study year as default.
- All discipline-specific modules in the 1st and 2nd year are 15-ECTS modules.
- Typical 15-ECTS modules comprise **two 5-ECTS lectures** (one in fall, one in spring, each 2 x 75 min per week) and **one 5-ECTS or two 2.5 ECTS lab- or seminar-type courses.**
- Two 2.5 ECTS lab- or seminar-type courses (one in fall, one in spring) are default for 1st-year modules (typically 6 full afternoons within 3 weeks)
- 15-ECTS modules are also implicit in the Jacobs Track (3 x 15 ECTS per year = 45 ECTS), but there is large flexibility to distribute these courses across study years ("continuous" modules).

OUR 3C CURRICULAR STRUCTURE:

JACOBS UNIVERSITY

EXAMPLE:
15-ECTS CHOICE MODULE
CELL BIOLOGY

Module Components and Types

Course No.	Course Name	Type	ECTS	No. of sessions (per semester)	Duration of session	Total (hours)
CH01-520122	From Cells to Tissues and Body Functions	Lecture	5	28	75 min	35
CH01-520123	General Cell Biology Lab	Lab	2.5	6	255 min	25.5
CH01-520102	General Molecular Cell Biology	Lecture	5	28	75 min	35
CH01-520112	General Molecular Cell Biology Lab	Lab	2.5	6	255 min	25.5

OUR GRADING SCHEME

JACOBS UNIVERSITY

Course Level:

Jacobs Percentage Grade

- 0-100% (integer numbers)
- For each grade component
- Final course grade as Percentage Grade

Module Level: Jacobs Grade

- CN converts the weighted average of the final course grades into a Jacobs Grade

All Jacobs courses and modules are graded, with the exception of the internship/study abroad module (20 ECTS) which is assigned a pass/fail.

Jacobs University Grading Scheme

	Jacobs Percentage Grade	Jacobs Grade
Excellent	100.00 % to 94.50 %	1.00
Very Good	94.49 % to 89.50 %	1.33
	89.49 % to 84.50 %	1.67
Good	84.49 % to 79.50 %	2.00
	79.49 % to 74.50 %	2.33
Satisfactory	74.49 % to 69.50 %	2.67
	69.49 % to 64.50 %	3.00
	64.49 % to 59.50 %	3.33
Sufficient	59.49 % to 54.50 %	3.67
	54.49 % to 49.50 %	4.00
	49.49 % to 44.50 %	4.33
Fail	44.49 % to 39.50 %	4.67
	39.49 % to 0.00 %	5.00

OUR GRADING SCHEME

JACOBS UNIVERSITY

Some Implications:

- Courses with low % grades can be compensated by others within a module.
- Only when the *module grade* is 4.67 or worse, the entire module is failed and the module credits are not granted.
- Cumulative GPA: weighted average of module grades (all course grades).

YOUR CHOICE - YEAR 1

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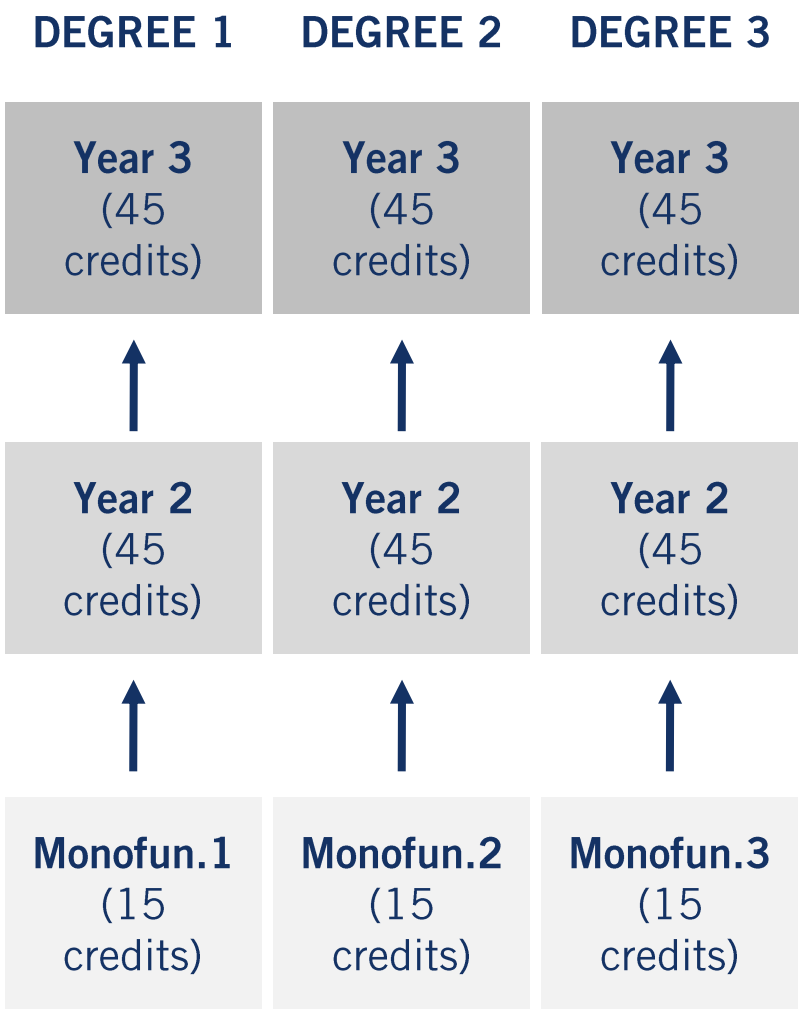
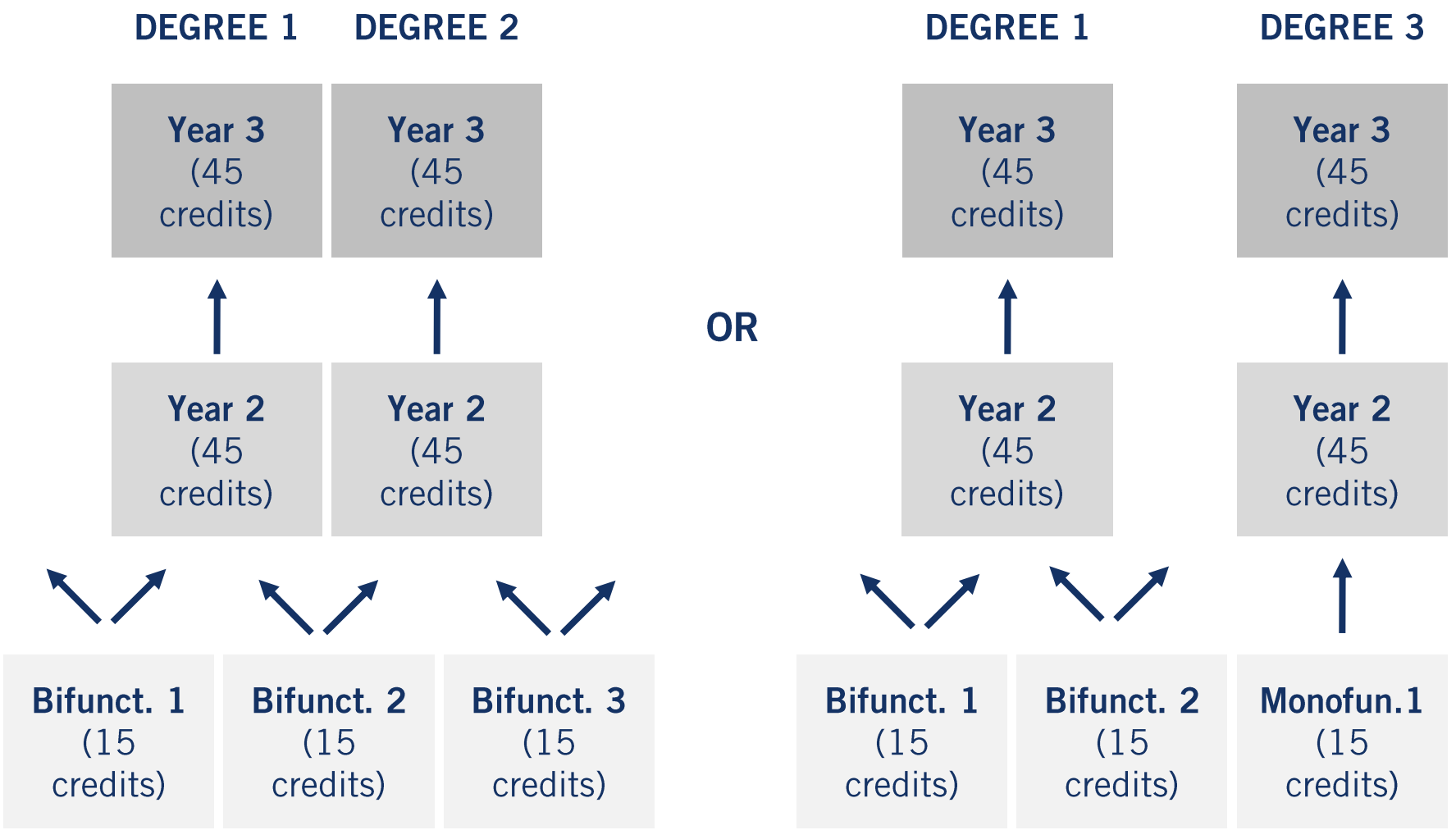
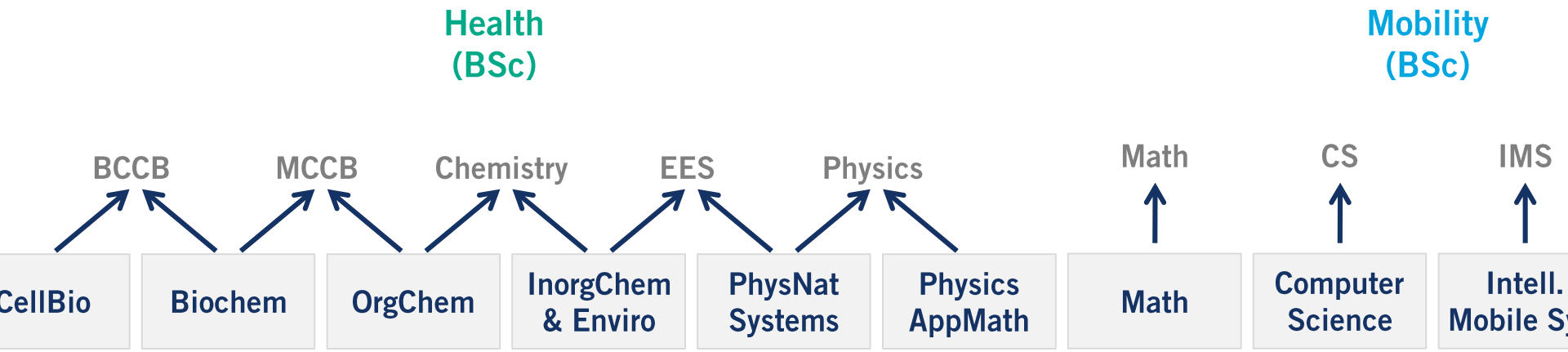


YOUR CHOICE - YEAR 1



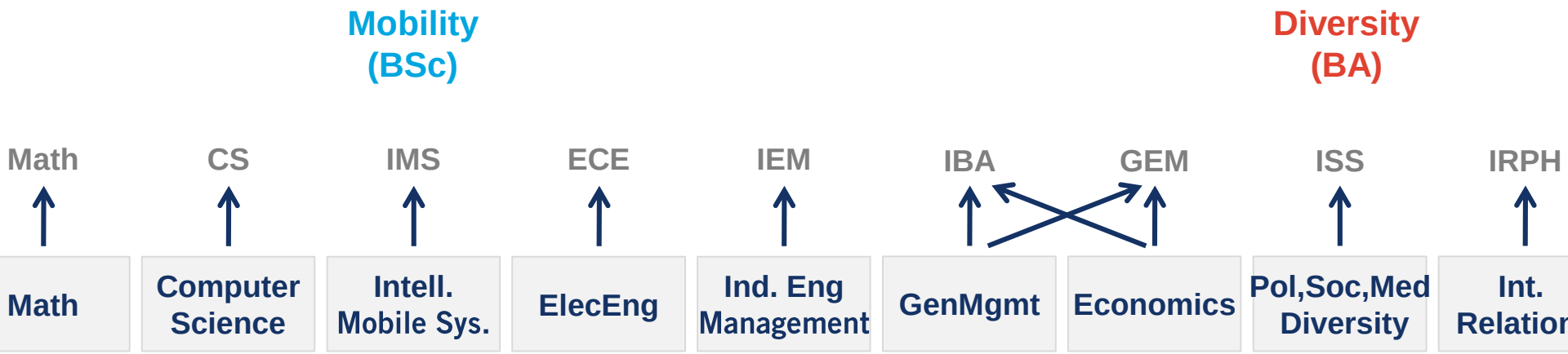
OUR 16 CHOICE MODULES

JACOBS UNIVERSITY



OUR 16 CHOICE MODULES

JACOBS UNIVERSITY



OUR 16 CHOICE MODULES

CAN I CHANGE MY MAJOR?

JACOBS UNIVERSITY

CAVE UNIVERSITY

Interesting fact:
About a third of all students have changed their major before the 2nd year.

"I´M TOO OLD AND SLOW TO HUNT, CAN I CHANGE MY MAJOR TO GATHERING?"

JACOBS TRACK:
SKILLS, METHODS, TRIANGLE, & LANGUAGE

JACOBS TRACK

- In addition to the courses of your major and minor you will also take courses that relate to the unique profile of Jacobs University
- These modules are housed in the Jacobs Track
- The Jacobs Track relates to four types of modules:
  - The Methods Module providing you with expertise and competencies you need for your studies as well as your work life
  - The Triangle Module broadening your horizon and familiarizing you – regardless of your discipline – with content in the three key areas:
    - **business**
    - **technology and innovation**
    - **societal context**
  - The Skills Module for the general academic and professional field (focus area) you are trained for
  - The Language Module (in particular, German for Non-German native speakers enabling you to communicate in your host country and providing you access to the German labor market)
- 4 Modules, total 45 ECTS over three years, typically 15 ECTS per year (all JT courses count 2.5 ECTS)

	Methods	Triangle	Skills	Language
ECTS (mandatory)	15	15	5	10

SKILLS MODULE

JACOBS UNIVERSITY

- Skills courses as well as methods courses are linked to the focus areas and the programs offered.
- Your intended major determines the skills and methods courses you are recommended to take in the first year.

Health	Mobility		Diversity
Scientific and Experimental Skills	Programming in Python	Programming in C	Academic and professional skills
Advanced Scientific and Experimental Skills	Advanced Programming in Python	Advanced Programming in C	Advanced academic and professional skills

JACOBS TRACK
SKILLS COURSES IN FALL 2017

Course No.	Course	Instructor(s)
JTSK-990100	Academic and Professional Skills	Alena Khaptsova, Mandi Larsen, Rocco Paolillo, Vladimir Ponizovskiy
JTSK-990103	Scientific and Experimental Skills	Jürgen Fritz, Andreas Hennig
JTSK-320111	Programming in C I	Kinga Lipskoch, Xu He
JTSK-350111	Programming in Python I	Kinga Lipskoch, Alexey Fofonov

METHODS MODULE

JACOBS UNIVERSITY

- The methods module comprises mathematics, statistics, research and experimental methods.
- For the programs in the focus areas health and mobility knowledge in mathematics is fundamental for a successful career. For the diversity focus, expertise in empirical research methods (qualitative and quantitative ones) gives you the competitive edge.
- Math courses are offered in three different flavors: applied – solid theoretical with focus on computation – full abstraction. Programs define minimum requirements. You are free to go for a higher level of abstraction.
- Empirical research methods courses will introduce you to both qualitative and quantitative (i.e., statistical) approaches.
- Math and most methods courses will run for seven weeks only (i.e., you typically will take two per semester)

JACOBS TRACK
METHODS COURSES IN FALL 2017

Course No.	Course	Instructor(s)
JTME-120106	Applied Calculus I	Igor Gorbovickis
JTME-120107	Applied Calculus II	Igor Gorbovickis
JTME-120103	Calculus I	Tobias Preußer
JTME-120104	Calculus II	Tobias Preußer
JTME-120203	Elements of Analysis I	Sören Petrat
JTME-120204	Elements of Analysis II	Sören Petrat
JTME-120201	Elements of Probability	Keivan Mallahi Karai
JTME-990103	Empirical Research Methodology	Mandi Larsen
JTME-990213	Statistical Modeling with SPSS	K. Boehnke
JTME-990203	Statistical Modeling with R	A. Wilhelm
JTME-990222	Econometrics	Colin Vance
JTME-990204	Qualitative Research: Analysis of Text and Images	Margrit Schreier

JACOBS TRACK
METHODS COURSES IN FALL 2017

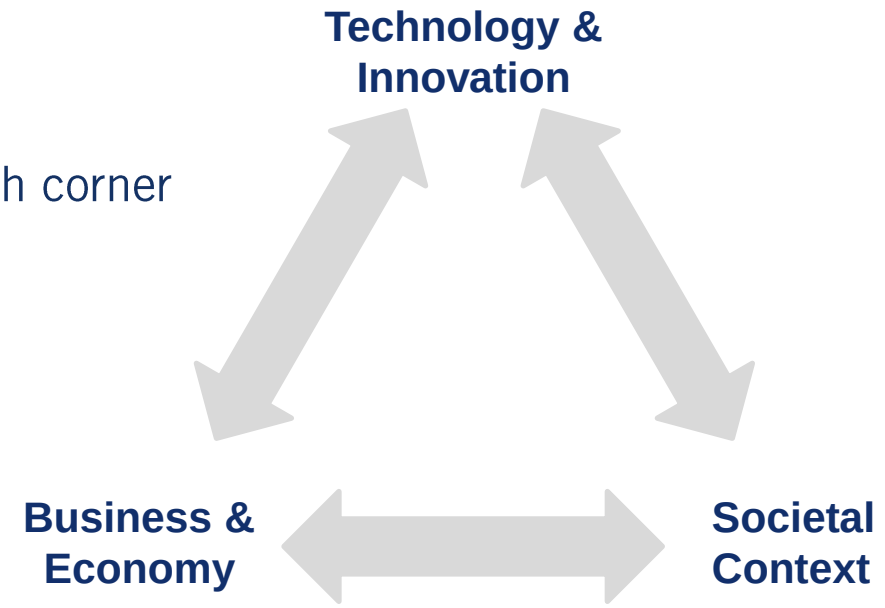
Course No.	Course	Instructor(s)
JTME-550201	Introduction to Bioinformatics	Frank Oliver Glöckner Marc-Thorsten Hütt
JTME-210213	Methods in Life Sciences and Chemistry Research	Multi-Instructor-Course
JTME-120103	Geo-Information Systems (GIS Lab)	Vikram Unnithan

TRIANGLE MODULE:
TRANSDISCIPLINARITY

Triangle courses broadening your horizon and familiarizing you with content in the three key areas:

- **business**
- **technology and innovation**
- **societal context**

→ six courses in total, two from each corner

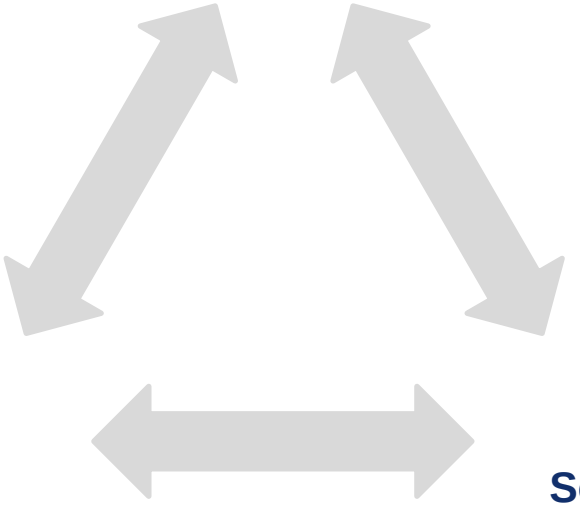


JACOBS TRIANGLE COURSES

JACOBS UNIVERSITY

Technology & Innovation

Computer Science for All
Real World Physics



Business & Economy

Big Data: Big Boon or Big Brother?
Biotechnology: From Science to Business
Fundamentals of International Business
Fundamentals of Economics

Societal Context

Ethics in Science and Technology
Fundamentals of Cultural Anthropology
Fundamentals of Law
Global Health
Extreme Natural Hazards

JACOBS TRACK
TRIANGLE COURSES IN FALL 2017

Course-Nr.	Course title	Corner	Instructor	Restrictions
Triangle Area Courses FALL 2017				
JTTE-020006	Real World Physics	TE	Materny	Not open to students who took CH05 and/or CH06 + ESS/PHY students in their 3rd year
JTTE-020011	Computer Science for all	TE	Wilhelm	Not open to students who took CH08 + CS, ECE, or EECS students in their 3rd year
JTSC-020008	Global Health - historical context and future challenges	SC	Lisewski	
JTBU-020059	Biotechnology: From Science to Business	BE	Fernandez-Lahore	
JTBU-020003	Big Data: Big Boon and Big Brother!?	BE	Wilhelm	
JTSC-020009	Extreme Natural Hazards, Disaster Risks and Societal Implications	SC	Thomsen	
JTSC-040121	Ethics in Science and Technology	SC	Lerchl	
JTBU-020013	Fundamentals of Economics	BE	Nabor	Not open to students who took/take CH13
JTBU-002012	Fundamentals of International Business	BE	Lattemann	Not open to students who took/take CH12
JTBU-020014	Fundamentals of Cultural Anthropology	SC	Gamsa-khurdia	
JTTE-020013	Fundamentals of Law	SC	Hinz	

COURSE DISTRIBUTION OVER TIME

Semester	Methods	Skills	Triangle	Language
6th		0 to 2.5 ECTS	0 to 15 ECTS	
5th				
4th	0 to 5 ECTS	0 to 2.5 ECTS	0 to 7.5 ECTS	2.5 ECTS
3rd	0 to 5 ECTS	0 to 2.5 ECTS	0 to 7.5 ECTS	2.5 ECTS
2nd	2.5 to 5 ECTS	0 to 2.5 ECTS	0 to 2.5 ECTS	2.5 ECTS
1st	2.5 to 5 ECTS	2.5 ECTS		2.5 ECTS

- Methods, skills and language courses start in the first semester,
- most of them are hierarchical
- Triangle courses will benefit from diverse student body (peer learning)
- Don’t wait too long for taking triangle courses
- They are designed to be an opportunity, not a burden for you

LANGUAGE COURSES

JACOBS UNIVERSITY

German language courses are taught by JU's team of experienced German language teachers. **French, Spanish and Chinese** courses are taught in cooperation with our partner institutions Institut français, Spanish Instituto Cervantes, and Confucius-Institute. They are free of charge. Courses start at the beginning of the semester, last 14 weeks (2 x 75 minutes), and are rewarded with 2.5 ECTS (for students).

INSTITUT FRANÇAIS

Instituto Cervantes

CONFUCIUS INSTITUTE

LANGUAGE PROGRAMS – REQUIREMENTS

JACOBS UNIVERSITY

All **undergraduate students** (except MedNat) must register for the Language module and earn **10 ECTS** (from 4 courses) over the course of their studies. German is mandatory for non-German speakers. German speakers choose between French, Spanish, and Chinese.

Depending on the study program, language courses are either mandatory, mandatory elective, or elective for **graduate students**. Please consult the respective Study Program Handbooks for details.

Languages are elective for the **preparatory programs** Foundation Year and Medical Preparatory Year.

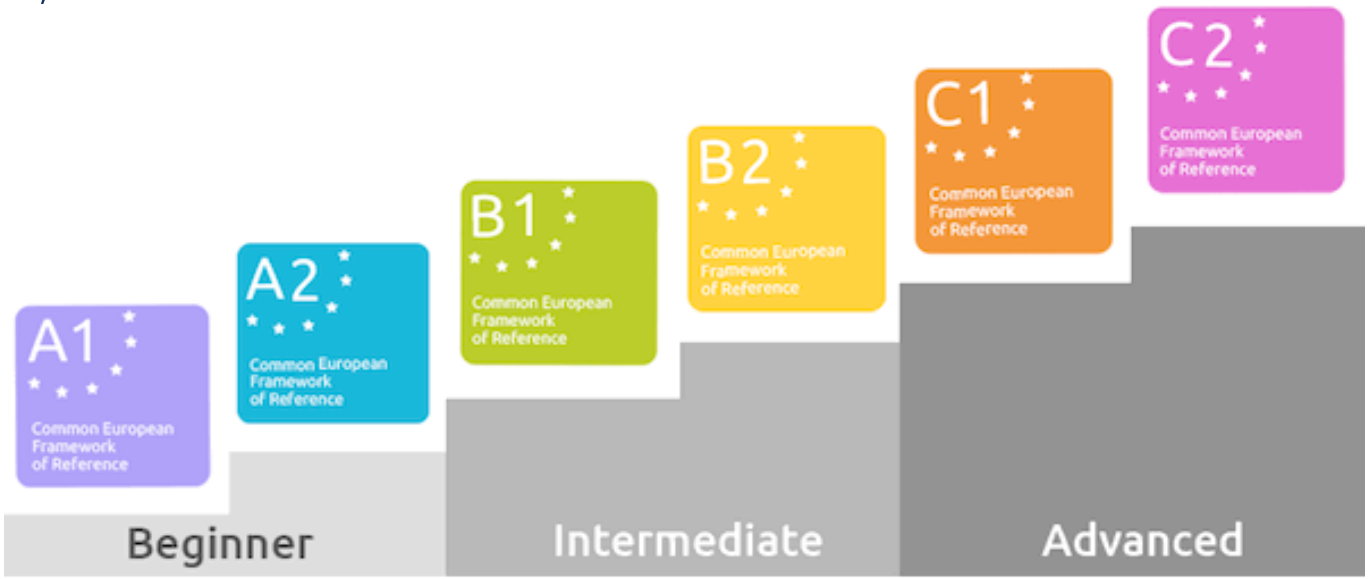
MedNat students take intensive German as part of their core curriculum and may complement this knowledge with further courses (in German or another language) from the mandatory Triangle / Language area module.

THE LANGUAGE LEVELS

ACCORDING TO THE COMMON FRAMEWORK OF REFERENCE FOR LANGUAGE (CEFR)

Six levels of foreign language proficiency

The CEFR describes foreign language proficiency at six levels: A1 and A2, B1 and B2, C1 and C2.



https://www.coe.int/en/web/common-european-framework-reference-languages/

Graphic Chart: http://gostudylink.net/images/blog/levels_2.gif

COURSE LEVELS: GERMAN COURSES

Study year	Fall	Spring
1	A1.1	A1.2
2	A2.1 (1)	A2.1 (2)
	New: German Language and Life (A2.1) Fall 2017	
3	A2.2 (1)	A2.2 (2)
4	B1.1 (1)	B1.1 (2)
5	B1.2 (1)	B1.2 (2)
6	B2.1 (1)	B2.1 (2)
7	B2.2 (1)	B2.2 (2)
8	C1	C1

Language Program's Website: http://language-program.user.jacobs-university.de/

LANGUAGE PROGRAMS – PLACEMENT TESTS

All students* need to take a placement test in the beginning of the semester in order to register for a language course.

German	**Fri, Sep 1** 08:00 – 09:30 **or** 10:00 – 11:30 **or** 12:00 – 13:30	Conrad Naber Lecture Hall
French	**Fri, Sep 1** 08:30 – 09:45 **or** 09:45 – 11:00	East Hall 2
Spanish	**Fri, Sep 1** 08:30 – 09:45 **or** 09:45 – 11:00	East Hall 1

*** Except absolute beginners and those who passed a language course in the previous semester**

THE JACOBS TRACK

METHODS, SKILLS, LANGUAGES, AND TRANSDISCIPLINARY CONTENT

JACOBS UNIVERSITY

The **Jacobs Track** (45 ECTS) courses are taken across all years (including intersession and potentially summer break course offerings). All courses are 2.5 ECTS courses. All modules are continuous modules.

- **15** credits for Methods courses within the ***Methods Module**** (should be taken according to study plan)
- **15** credits for Triangle courses within the ***Triangle Module**** (can be taken any time, at least one course foreseen in each year)
- **10** credits for Language courses within the ***Language Module**** (recommended to be taken before internship)
- **5** credits for other Skills courses within the ***Skills Module**** (should be taken according to study plan)

** These modules appear separately with grades on the transcript.*

OUR 3C CURRICULAR STRUCTURE

JACOBS UNIVERSITY

BA/ BSc Degree

Year 3	**CAREER 1** Internship / Study Abroad (**World Track**)	**CAREER 2** Specialization	**CAREER 3** Project/ Research BA/BSc Thesis	**Jacobs Track** Transdisciplinary Triangle *Business, Technology, Societal Context* Languages Methods *Mathematics, Statistics* Skills
Year 2	**CORE 1**	**CORE 2**	**CORE 3**	
Year 1	**CHOICE 1**	**CHOICE 2**	**CHOICE 3**	

YEAR 1 Take three CHOICE modules, one free selection

YEAR 2 Take three CORE modules, one CORE module can be substituted by a CORE module from a second study program to pursue a minor

YEAR 3 Alternatively Campus Track with a 4th CORE module instead of internship/study abroad module

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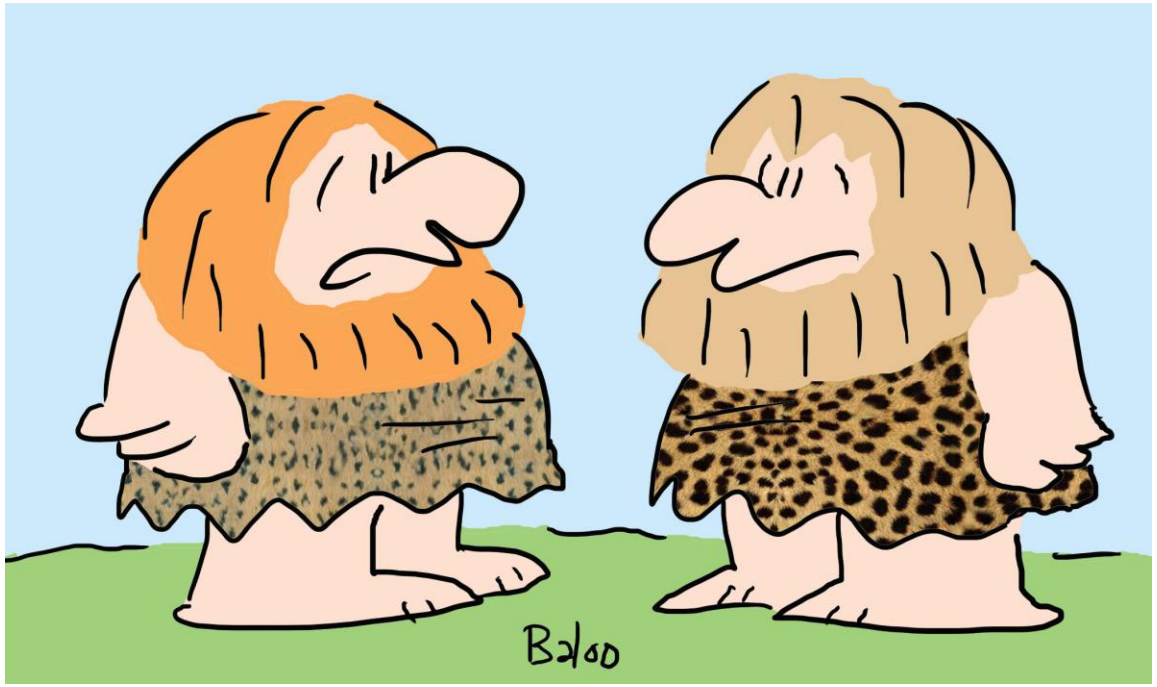
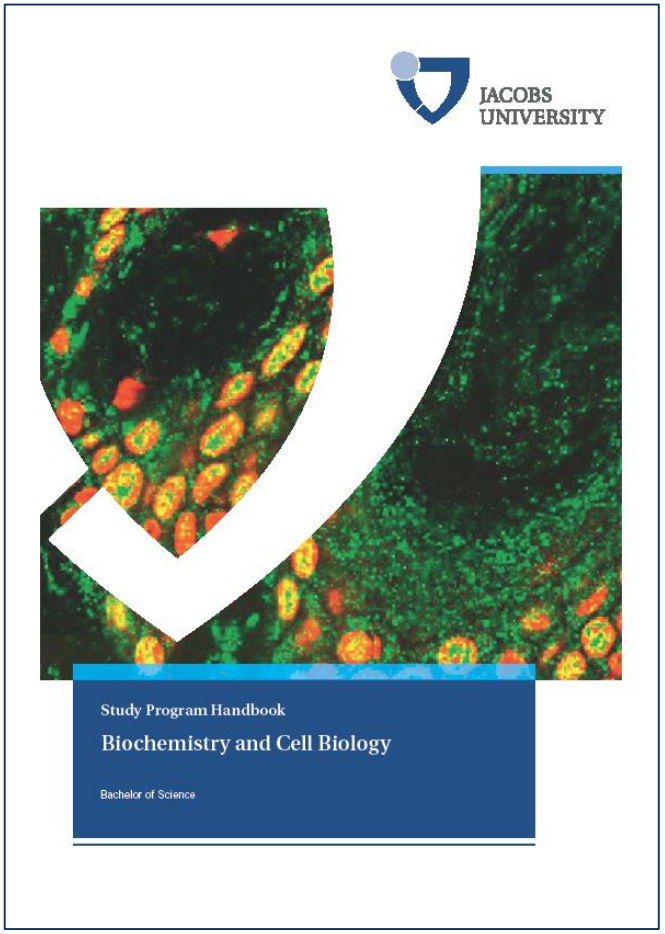


"HUNTING OR GATHERING…
IT'S SO HARD TO PRIORITIZE!"

ADVISING TOOLS:
NEW STUDY PROGRAM HANDBOOKS



- All study program handbooks have a new generic structure
- The first part gives an introduction to the study program
- The second part first describes the general curricular structure (of the 3-C model) including the Jacobs Track, and then lays out the modular structure of the respective study program
- The **mandatory course plan** (Appendix I) can additionally be downloaded from the study program website
- Appendix II contains all course data
- The handbook complements the general graduation requirements stated in the Undergraduate Policy

MANDATORY COURSE PLAN
EXAMPLE FROM THE FOCUS AREA HEALTH

JACOBS UNIVERSITY

Biochemistry and Cell Biology – World Track

Matriculation Fall 2017

	Program-Specific Modules	Type	Status[1]	Semester	Credits		Jacobs Track Modules (General Education)	Type	Status[1]	Semester	Credits
Year 1 - CHOICE					**45**						**20**
Take the two mandatory CHOICE modules listed below, these are a requirement for the BCCB program.											
CH02-BioChem	**Module: Biochemistry and Molecular Biology**		**m**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CH02-520101	General Biochemistry and Molecular Biology I	Lecture	m	1	5		JT-ME-120106	Applied Calculus I	Lecture	m	1	2,5
CH02-520111	General Biochemistry and Molecular Biology I Lab	Lab	m	1	2,5		JT-ME-120107	Applied Calculus II	Lecture	m	1	2,5
CH02-520201	General Biochemistry and Molecular Biology II	Lecture	m	2	5		JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5
CH02-520121	General Biochemistry and Molecular Biology II Lab	Lab	m	2	2,5		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
CH01-CellBio	**Module: Cell Biology**		**m**		**15**		JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5
CH01-520122	From Cells to Tissues and Body Functions	Lecture	m	1	5		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**5**
CH01-520123	General (Cell) Biology Lab	Lab	m	1	2,5			Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	1/2	5
CH01-520102	General Molecular Cell Biology	Lecture	m	2	5		**JT-LA-Language**	**Module: Language**		**m**		**5**
CH01-520112	General Molecular Cell Biology Lab	Lab	m	2	2,5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	1/2	5
	Module: CHOICE (own selection)		**e**	**1/2**	**15**		**CA01-CarAdv**	**Career Advising[4]**				
Students take one further CHOICE module from those offered for all other study programs. [2]												
Year 2 - CORE					**45**						**20**
Take all three modules or replace one with a CORE module from a different study program. [2]												
CO03-MolBio	**Module: Molecular Biology**		**me**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CO03-520224	Molecular Information Pathways	Lecture	m	3	5			Take three Methods (mandatory) elective courses (2,5 ECTS each). [2]	Lecture	me	3/4	7,5
CO03-530661	Molecular Evolution	Lecture	m	4	5		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**7,5**
CO03-520225	Molecular Biology Lab	Lab	m	3	5			Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	3/4	7,5
CO02-InfIImm	**Module: Infection and Immunity**		**me**		**15**		**JT-LA-Language**	**Module: Language**		**m**		**5**
CO02-520233	Microbes and Infection	Lecture	m	3	5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5
CO02-520322	Immunology	Lecture	m	4	5		**CA01-CarAdv**	**Career Advising[4]**				
CO02-520221	Microbiology Lab	Lab	m	4	5							
CO01-Biomed	**Module: Biomedicine**		**me**		**15**							
CO01-520234	Advanced Molecular Cell Biology	Lecture	m	3	5							
CO01-520235	Molecular Mechanisms of Disease, Diagnostics and Therapy	Lecture	m	4	5							
CO01-520241	Advanced Molecular Cell Biology Lab (Intersession)	Lab	m	3	5							
Year 3 - CAREER					**45**						**5**
CA02 / CA03	**Module: Internship / Study Abroad**		**m**	**5**	**20**		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
							JT-SK-990104	Advanced Scientific and Experimental Skills	Lecture	m	6	2,5
CA05-BCCB	**Module: Project/Thesis BCCB**		**m**		**15**		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**2,5**
CA05-520305	Project BCCB		m	6	5			Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	6	2,5
CA05-520306	Thesis BCCB		m	6	10							
CAS-WT-BCCB	**Module: Specialization Area BCCB**		**m**		**10**		**CA01-CarAdv**	**Career Advising[4]**				
	Take four specialization courses (2.5 ECTS each) [2]		me	5/6	10							
Total ECTS												**180**

[1] Status (m = mandatory, e = elective, me = mandatory elective)

[2] For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the **CampusNet online catalogue** and / or the module handbook (on our website).

[3] You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

[4] Mandatory component of the Jacobs University's Counseling and Advising Scheme.

Example from the Focus Area Health:

Biochemistry and Cell Biology – World Track

Matriculation Fall 2017

	Program-Specific Modules	Type	Status[1]	Semester	Credits
Year 1 - CHOICE					**45**
Take the two mandatory CHOICE modules listed below, these are a requirement for the BCCB program.					
CH02-BioChem	**Module: Biochemistry and Molecular Biology**		**m**		**15**
CH02-520101	General Biochemistry and Molecular Biology I	Lecture	m	1	5
CH02-520111	General Biochemistry and Molecular Biology I Lab	Lab	m	1	2,5
CH02-520201	General Biochemistry and Molecular Biology II	Lecture	m	2	5
CH02-520121	General Biochemistry and Molecular Biology II Lab	Lab	m	2	2,5
CH01-CellBio	**Module: Cell Biology**		**m**		**15**
CH01-520122	From Cells to Tissues and Body Functions	Lecture	m	1	5
CH01-520123	General (Cell) Biology Lab	Lab	m	1	2,5
CH01-520102	General Molecular Cell Biology	Lecture	m	2	5
CH01-520112	General Molecular Cell Biology Lab	Lab	m	2	2,5
	Module: CHOICE (own selection)		**e**	**1/2**	**15**
Students take one further CHOICE module from those offered for all other study programs.					
Year 2 - CORE					**45**

	Jacobs Track Modules (General Education)	Type	Status[1]	Semester	Credits
					20
JT-ME-MethodsMath	**Module: Methods / Mathematics**		**m**		**7,5**
JT-ME-120106	Applied Calculus I	Lecture	m	1	2,5
JT-ME-120107	Applied Calculus II	Lecture	m	1	2,5
JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5
JT-SK-Skills	**Module: Skills**		**m**		**2,5**
JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5
JT-TA-TriArea	**Module: Triangle Area**		**m**		**5**
	Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS		me	1/2	5
JT-LA-Language	**Module: Language**		**m**		**5**
	Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	1/2	5
CA01-CarAdv	**Career Advising[4]**				
					20

MANDATORY COURSE PLAN
EXAMPLE FROM THE FOCUS AREA HEALTH

JACOBS UNIVERSITY

Biochemistry and Cell Biology – World Track

Matriculation Fall 2017

	Program-Specific Modules	Type	Status[1]	Semester	Credits		Jacobs Track Modules (General Education)	Type	Status[1]	Semester	Credits
Year 1 - CHOICE					**45**						**20**
Take the two mandatory CHOICE modules listed below, these are a requirement for the BCCB program.											
CH02-BioChem	**Module: Biochemistry and Molecular Biology**		**m**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CH02-520101	General Biochemistry and Molecular Biology I	Lecture	m	1	5		JT-ME-120106	Applied Calculus I	Lecture	m	1	2,5
CH02-520111	General Biochemistry and Molecular Biology I Lab	Lab	m	1	2,5		JT-ME-120107	Applied Calculus II	Lecture	m	1	2,5
CH02-520201	General Biochemistry and Molecular Biology II	Lecture	m	2	5		JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5
CH02-520121	General Biochemistry and Molecular Biology II Lab	Lab	m	2	2,5		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
CH01-CellBio	**Module: Cell Biology**		**m**		**15**		JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5
CH01-520122	From Cells to Tissues and Body Functions	Lecture	m	1	5		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**5**
CH01-520123	General (Cell) Biology Lab	Lab	m	1	2,5			Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	1/2	5
CH01-520102	General Molecular Cell Biology	Lecture	m	2	5		**JT-LA-Language**	**Module: Language**		**m**		**5**
CH01-520112	General Molecular Cell Biology Lab	Lab	m	2	2,5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	1/2	5
	Module: CHOICE (own selection)		**e**	**1/2**	**15**		**CA01-CarAdv**	**Career Advising[4]**				
Students take one further CHOICE module from those offered for all other study programs. [2]												
Year 2 - CORE					**45**						**20**
Take all three modules or replace one with a CORE module from a different study program. [2]												
CO03-MolBio	**Module: Molecular Biology**		**me**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CO03-520224	Molecular Information Pathways	Lecture	m	3	5			Take three Methods (mandatory) elective courses (2,5 ECTS each). [2]	Lecture	me	3/4	7,5
CO03-530661	Molecular Evolution	Lecture	m	4	5		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**7,5**
CO03-520225	Molecular Biology Lab	Lab	m	3	5			Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	3/4	7,5
CO02-InfIImm	**Module: Infection and Immunity**		**me**		**15**		**JT-LA-Language**	**Module: Language**		**m**		**5**
CO02-520233	Microbes and Infection	Lecture	m	3	5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5
CO02-520322	Immunology	Lecture	m	4	5		**CA01-CarAdv**	**Career Advising[4]**				
CO02-520221	Microbiology Lab	Lab	m	4	5							
CO01-Biomed	**Module: Biomedicine**		**me**		**15**							
CO01-520234	Advanced Molecular Cell Biology	Lecture	m	3	5							
CO01-520235	Molecular Mechanisms of Disease, Diagnostics and Therapy	Lecture	m	4	5							
CO01-520241	Advanced Molecular Cell Biology Lab (Intersession)	Lab	m	3	5							
Year 3 - CAREER					**45**						**5**
CA02 / CA03	**Module: Internship / Study Abroad**		**m**	**5**	**20**		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
							JT-SK-990104	Advanced Scientific and Experimental Skills	Lecture	m	6	2,5
CA05-BCCB	**Module: Project/Thesis BCCB**		**m**		**15**		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**2,5**
CA05-520305	Project BCCB		m	6	5			Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	6	2,5
CA05-520306	Thesis BCCB		m	6	10							
CAS-WT-BCCB	**Module: Specialization Area BCCB**		**m**		**10**		**CA01-CarAdv**	**Career Advising[4]**				
	Take four specialization courses (2.5 ECTS each) [2]		me	5/6	10							
Total ECTS												**180**

[1] Status (m = mandatory, e = elective, me = mandatory elective)

[2] For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the **CampusNet online catalogue** and / or the module handbook (on our website).

[3] You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

[4] Mandatory component of the Jacobs University's Counseling and Advising Scheme.

MANDATORY COURSE PLAN
EXAMPLE FROM THE FOCUS AREA MOBILITY

JACOBS UNIVERSITY

Computer Science – World Track

Matriculation Fall 2017

	Program-Specific Modules	Type	Status[1]	Semester	Credits		Jacobs Track Modules (General Education)	Type	Status[1]	Semester	Credits
Year 1 - CHOICE					**45**						**20**
Take the mandatory CHOICE module listed below, this is a requirement for the CS program.											
CH08-GenCS	**Module: General Computer Science**		**m**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**	**m**		**7,5**
CH08-320101	Introduction to Computer Science	Lecture	m	1	5		JT-ME-120103	Calculus I	Lecture	m	1	2,5
CH08-320142	Object-Oriented Programming I	Lab	m	1	2,5		JT-ME-120104	Calculus II	Lecture	m	1	2,5
CH08-320201	Algorithms and Data Structures	Lecture	m	2	5		JT-ME-120122	Foundations of Linear Algebra I	Lecture	m	2	2,5
CH08-320143	Object-Oriented Programming II	Lab	m	2	2,5		**JT-SK-Skills**	**Module: Skills [5]**		**m**		**5**
	Module: CHOICE (own selection)		**e**	**1/2**	**30**		JT-SK-320111	Programming in C I	Lecture	m	1	2,5
							JT-SK-320112	Programming in C II	Lecture	m	2	2,5
Students take two further CHOICE modules from those offered for all other study programs. [2]							**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**2,5**
								Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	1/2	2,5
							JT-LA-Language	**Module: Language**		**m**		**5**
								Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	1/2	5
							CA01-CarAdv	**Career Advising[4]**		**m**		
Year 2 - CORE					**45**						**20**
Take all three modules or replace one with a CORE module from a different study program. [2]											
CO19-ApplCS	**Module: Applied Computer Science**		**me**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**	**m**		**7,5**
CO19-320302	Databases and Web Services	Lecture	m	3	5		JT-ME-120201	Elements of Probability	Lecture	m	3	2,5
CO19-320322	Computer Graphics	Lecture	m	3	5		JT-ME-120113	Foundations of Linear Algebra II	Lecture	m	3	2,5
CO19-320212	Software Engineering	Lecture	m	4	5		JT-ME-120202	Numerical Methods I	Lecture	m	4	2,5
CO20-TechCS	**Module: Technical Computer Science**		**me**		**15**		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**7,5**
CO20-320202	Operating Systems	Lecture	m	3	5			Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	3/4	7,5
CO20-320241	Computer Architecture and Programming Languages	Lecture	m	3	5							
CO20-320301	Computer Networks	Lecture	m	4	5							
CO21-TheoCS	**Module: Theoretical Computer Science**		**me**		**15**		**JT-LA-Language**	**Module: Language**		**m**		**5**
CO21-320211	Formal Languages and Logic	Lecture	m	3	5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5
CO21-320203	Secure and Dependable Systems	Lecture	m	4	5							
CO21-320352	Computability and Complexity	Lecture	m	4	5		**CA01-CarAdv**	**Career Advising[4]**		**m**		
Year 3 - CAREER					**45**						**5**
CA02 / CA03	**Module: Internship / Study Abroad**		**m**	**5**	**20**		**JT-TA-TriArea**	**Module: Triangle Area**		**m**		**5**
								Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	6	5
CA10-CS	**Module: Project/Thesis CS**		**m**		**15**		**CA01-CarAdv**	**Career Advising[4]**		**m**		
CA10-320305	Project CS		m	6	5							
CA10-320306	Thesis CS		m	6	10							
CA-S-CS	**Module: Specialization Area CS**		**m**		**10**							
	Take four specialization courses (2.5 ECTS each) [2]		me	5/6	10							
Total ECTS												**180**

[1] Status (m = mandatory, e = elective, me = mandatory elective) [2] For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and / or the module handbook (on our website).

[3] You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

[4] Mandatory component of the Jacobs University's Counseling and Advising Scheme.

[5] CS students may also take the *Programming in Python* skills courses, but the received credits will not count towards the 180 ECTS credits required by the major nor do they count for the GPA.

MANDATORY COURSE PLAN
EXAMPLE FROM THE FOCUS AREA DIVERSITY

JACOBS UNIVERSITY

International Relations: Politics and History – World Track

Matriculation Fall 2017

	Program-Specific Modules	Type	Status[1]	Semester	Credits		Jacobs Track Modules (General Education)	Type	Status[1]	Semester	Credits
Year 1 - CHOICE					**45**						**20**
Take the mandatory CHOICE module listed below, this is a requirement for the IRPH program.											
CH15-IntroIR	**Module: Introduction to International Relations**		**m**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CH15-830102	Contemporary European History since 1789	Lecture	m	1	5		JT-ME-990103	Empirical Research Methodology	Lecture	m	1	2,5
CH15-850201	International Relations of the Twentieth Century I	Seminar	m	1	2,5		JT-ME-990123	Data Analysis and Statistical Inference with SPSS	Lecture	m	2	2,5
CH15-910102	International Institutions	Lecture	m	2	5		JT-ME-990104	Qualitative Research: Methods and Design	Lecture	m	2	2,5
CH15-850202	International Relations of the Twentieth Century II	Seminar	m	2	2,5		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
							JT-SK-990100	Academic and Professional Skills	Lecture	m	1	2,5
	Module: CHOICE (own selection)		**e**	**1/2**	**30**		**JTTA-TriArea**	**Module: Triangle Area**		**m**		**5**
Students take two further CHOICE modules from those offered for all other study programs. [2]								Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	1/2	5
							JTLA-Language	**Module: Language**		**m**		**5**
								Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	1/2	5
							CA01-CarAdv	**Career Advising**[4]				
Year 2 - CORE					**45**						**20**
Take all three modules or replace one with a CORE module from a different study program. [2]											
CO35-IntPolitics	**Module: International Politics and Policy**		**me**		**15**		**JT-ME-MethodsMath**	**Module: Methods / Mathematics**		**m**		**7,5**
CO35-970301	International Security	Seminar	m	3	5		JT-ME-990213	Statistical Modeling with SPSS	Lecture	m	3	2,5
CO35-910202	Democratic Governance	Seminar	m	4	5			Take two Methods (mandatory) elective courses (2,5 ECTS each). [2]	Lecture	me	3/4	5
CO35-910201	Diplomacy and Foreign Policy	Seminar	m	4	5		**JTTA-TriArea**	**Module: Triangle Area**		**m**		**7,5**
CO38-GlobDynHist	**Module: Global Dynamics in Historical Perspective**		**me**		**15**			Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	3/4	7,5
CO38-820222	Empires and Nation States	Lecture	m	3	5		**JTLA-Language**	**Module: Language**		**m**		**5**
CO38-820201	Modern Asian History	Seminar	m	4	5			Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5
CO38-820212	Globalization in the Modern Era	Seminar	m	4	5		**CA01-CarAdv**	**Career Advising**[4]				
CO39-ArenaPolLife	**Module: Arenas of Political Life**		**me**		**15**							
CO39-830211	Regional Integration	Seminar	m	3	5							
CO39-830210	International Political Economy	Seminar	m	3	5							
CO39-830212	International Law	Lecture	m	4	5							
Year 3 - CAREER					**45**						**5**
CA02 / CA03	**Module: Internship / Study Abroad**		**m**	**5**	**20**		**JT-SK-Skills**	**Module: Skills**		**m**		**2,5**
							JT-SK-990110	Advanced Academic and Professional Skills		m	6	2,5
CA18-IRPH	**Module: Project/Thesis IRPH**		**m**		**15**		**JTTA-TriArea**	**Module: Triangle Area**		**m**		**2,5**
CA18-830303	Project IRPH		m	6	5			Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS [3]		me	6	2,5
CA18-830304	Thesis IRPH		m	6	10		**CA01-CarAdv**	**Career Advising**[4]				
CAS-WT-IRPH	**Module: Specialization Area IRPH**		**m**		**10**							
	Take four specialization courses (2.5 ECTS each) [2]		me	5/6	10							
Total ECTS												**180**

[1] Status (m = mandatory, e = elective, me = mandatory elective)

[2] For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the **CampusNet online catalogue** and / or the module handbook (on our website).

[3] You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

[4] Mandatory component of the Jacobs University's Counseling and Advising Scheme.

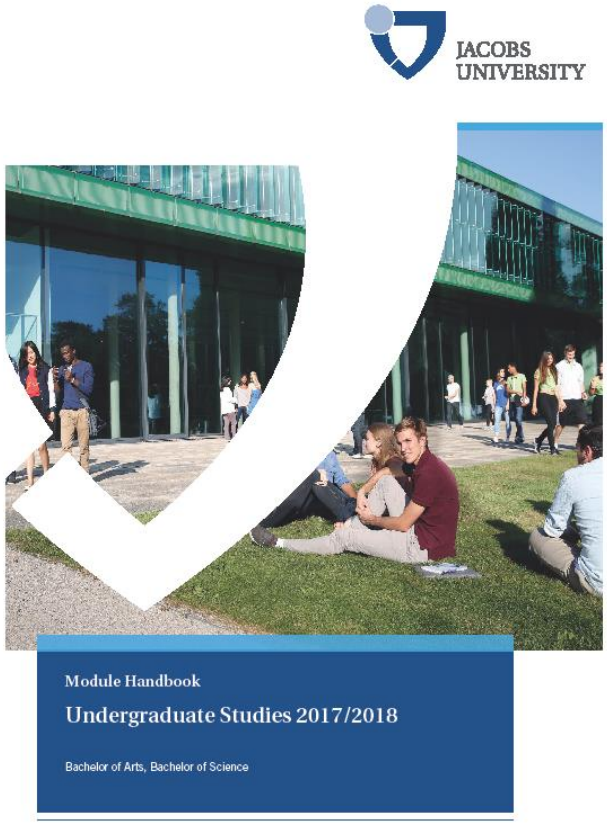
DECISION TOOLS:
OUR MODULE HANDBOOK

Our module handbook…

- Lists all modules, in particular CHOICE and CORE modules
- Will help you to make informed module choices
- Will help you selecting minors
- Contains important information on the modules, e.g. pre-requisites
- Is available as a download from each program webpage

Past study year info:

- Participants: **29**
- Average grade: **2.2** (1.0 = best)
- Passing rate: **100%**
- Student rating: **4.4/5** (5 = best)
- Feedback rate: **72%**



UNDERGRADUATE STUDIES COORDINATOR
DR. DORIS MOSBACH

CURRICULAR ADVISING FOR ALL BACHELOR STUDENTS

OFFICE HOURS

during O-week (Aug. 29 – Sept. 1):
Tue, Wed, Friday 10:00- 12:00
in RLH 258

<u>during the semester:</u>

Tue	**16:00-17:30**
Wed	**11:15-13:00**
Thu	**13:30-15:30 or by appointment**

d.mosbach@jacobs-university.de

WHAT CAN YOU EXPECT DURING YOUR STUDIES?

JACOBS UNIVERSITY

- Excellent supervision, with an average student/faculty ratio of ca. 13:1
- Average number of students in all classes in 2016/17: ca. 30
- Average number of students in 2016/17 CHOICE lectures: 60
- Average number of students in 2016/17 CHOICE seminars/labs: ca. 20-30
- Average number of students in 2016/17 CORE and CAREER modules: ca. 20
- More than 50% of classes had less than 20 students in study year 2016/17
- Individualized academic advising
- Very close guidance in your thesis project
- Immersion in research-active departments
- Intensive Career Advising (for internship and applications
- Study abroad support, etc.
- Psychological counseling and intercultural training as offers

REGISTRATION DEADLINES FALL 2017

JACOBS UNIVERSITY

- Regular **registration phase**: **30.08.17 – 04.09.17**
- Regular **drop/add period**: **13.09.17 – 18.09.17**
- Drop/add period for all **1st-year labs: 09.09.17-11.09.17**

Additional phase for Intersession: **23.10.17 – 13.11.17**

Students who register for a 4th CHOICE module should consider **dropping it** during the drop/add phase. Only the very best students have managed the additional workload.

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THANK YOU FOR YOUR ATTENTION.

Any Questions?

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THE 3C CURRICULAR STRUCTURE

INTRODUCTORY SESSION FOR UNDERGRADUATE STUDENTS

PART II: THE CORE AND CAREER YEARS

PROF. DR. WERNER NAU
DEAN, UNDERGRADUATE EDUCATION

DR. DORIS MOSBACH, UNDERGRADUATE STUDIES COORDINATOR

AUGUST 31, 2017

OUR 3C CURRICULAR STRUCTURE

JACOBS UNIVERSITY

BA/ BSc Degree

Year 3	**CAREER 1** Internship / Study Abroad (**World Track**)	**CAREER 2** Specialization	**CAREER 3** Project/ Research BA/BSc Thesis	**Jacobs Track** Transdisciplinary Triangle *Business, Technology, Societal Context* Languages Methods *Mathematics, Statistics* Skills
Year 2	**CORE 1**	**CORE 2**	**CORE 3**	
Year 1	**CHOICE 1**	**CHOICE 2**	**CHOICE 3**	

YEAR 1 Take three CHOICE modules, one free selection

YEAR 2 Take three CORE modules, one CORE module can be substituted by a CORE module from a second study program to pursue a minor

YEAR 3 Alternatively Campus Track with a 4th CORE module instead of internship/study abroad module

YOUR INTEREST IN OTHER PROGRAMS

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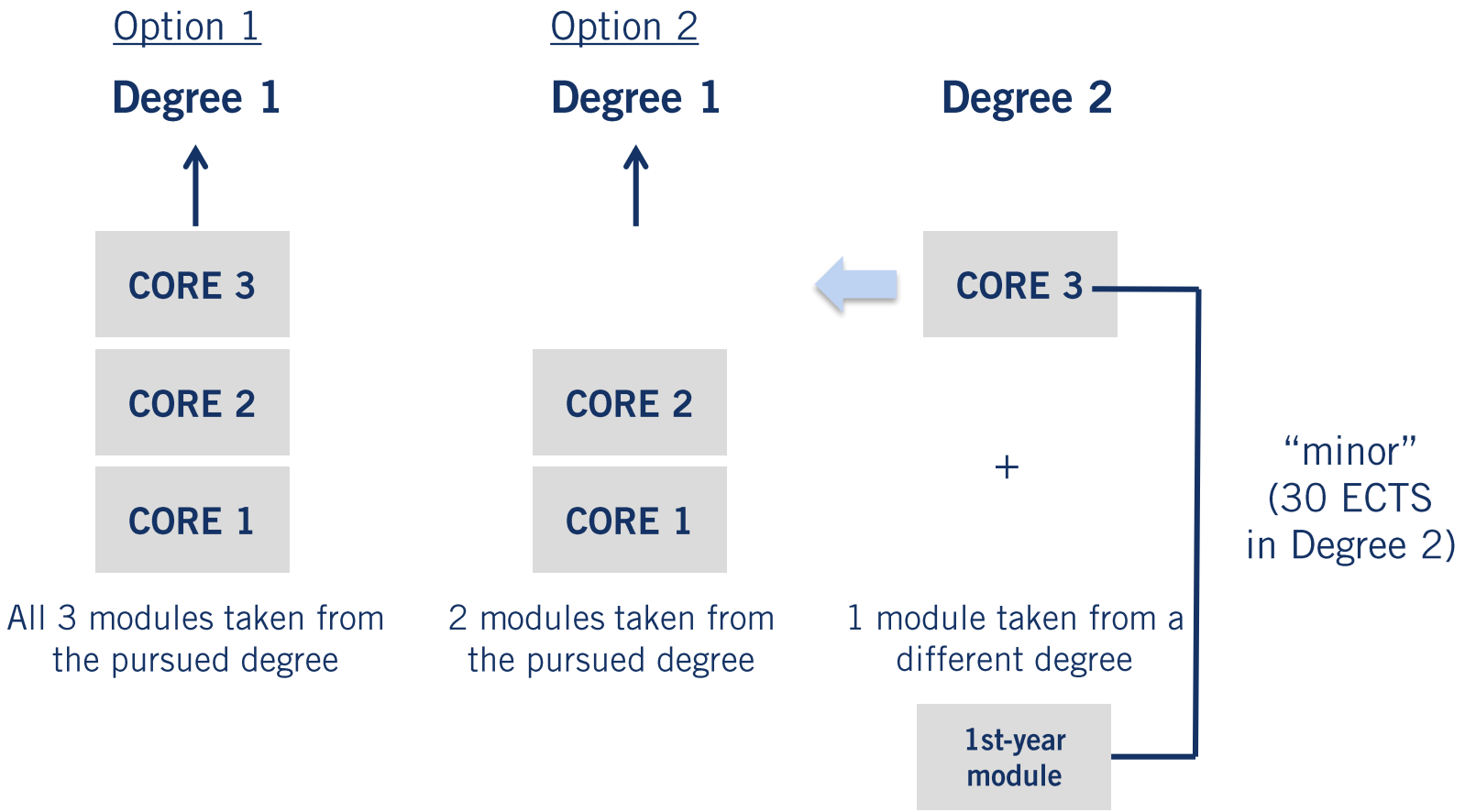
CAVE UNIVERSITY

"HUNTING OR GATHERING? AREN´T YOU OFFERING A MINOR OPTION?"

YOUR CORE YEAR 2
TWO OPTIONS TO FULFILL THE REQUIREMENTS



Interesting fact: About 54% of last year´s students plan to pursue a minor.

OUR 45 CORE MODULES

JACOBS UNIVERSITY

Health (BSc)

Mobility (BSc)

BCCB	MCCB	Chemistry	EES	Physics	Math	CS	IMS	ECE
↑	↑	↑	↑	↑	↑	↑	↑	↑
lolecular Biology	Chemical Biology	Chemical Biotech	Earth,Oc. Geophys	Physics Technology	Core Appl Math	Theoretical CS	Planning Optimiz	Signa Process
nfection& mmunity	Drug Action & Product	Physical/ Analytical	Earth,Oc. Geochem	Theoret Physics	Core Pure Math	Technical CS	Automat & Control	Electro & Nois
Bio- Medicine	Drug Developm	InorgSupra Chemistry	Earth & Enviro Sci	Physics of Matter	Core Math	Applied CS	Intelligent Systems	Commu

OUR 45 CORE MODULES

JACOBS UNIVERSITY

Mobility (BSc) **Diversity (BA)**

Math	CS	IMS	ECE	IEM	GEM	IBA	IRPH	ISS
ore Appl Math	Theoretical CS	Planning Optimiz	Signal Processing	*Elective*	Managing Diversity	Managing Diversity	Arenas Polit Life	The Go Socie
ore Pure Math	Technical CS	Automat & Control	Electronic & Noise	Process Eng	Econ Inst Organiz.	Finance Proj Mgmt	Glob Dyn Hist Persp	Commu Cult Co
Core Math	Applied CS	Intelligent Systems	Communic	Product & Eng	Econom Policy	Strategy & Mgtm	Int Polit & Policy	Int Po & Poli

OUR 45 CORE MODULES

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Diversity (BA) — **Health (BSc)**

GEM	IBA	IRPH	ISS	Psychology	BCCB	MCCB	Chemistry	EES
Managing Diversity	Managing Diversity	Arenas Polit Life	The Good Society	Humans Soc Context	Molecular Biology	Chemical Biology	Chemical Biotech	Earth,C Geoph
Econ Inst Organiz.	Finance Proj Mgmt	Glob Dyn Hist Persp	Communic Cult Cons	Appl Psychology	Infection& Immunity	Drug Action & Product	Physical/ Analytical	Earth,C Geoch
Econom Policy	Strategy & Mgtm	Int Polit & Policy	Int Polit & Policy	Biol Brain Cognition	Bio-Medicine	Drug Developm	InorgSupra Chemistry	Earth Enviro

MAJOR-/ MINOR OPTIONS
AS ADVISING TOOL – STATUS FALL 2017

Possible Major/Minor Combinations*

Major \ Minor	BCCB	MCCB	Chem	EES	Phys	Math	CS	IMS	ECE	IEM	GEM	IBA	IRPH	ISS	Psych
Health															
BCCB	-	X	X	X	X		X	X	X		X	X		X	X
MCCB	X	-	X	X	X			X	X	X	X	X	X		X
Chem	X	X	-	X	X	X		X		X	X	X	X	X	
EES	X	X	X	-	X	X	X			X	X	X	X	X	
Phys	X	X	X	X	-	X	X		X		X	X		X	X
Mobility															
Math	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X
CS	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X
IMS	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X
ECE	X	X	X	X	X	X	X	X	-	X	X	X	X	X	
IEM	X	X	X	X	X	X	X	X	X	-	X	X		X	X
Diversity															
GEM	X	X	X	X	X		X		X	X	-	X	X	X	X
IBA	X	X	X	X	X		X		X	X	X	-	X	X	X
IRPH	X	X	X	X	X	X	X	X	X		X	X	-	X	X
ISS	X	X	X	X	X	X		X	X	X	X	X	X	-	X
Psych	X	X	X	X	X	X	X	X		X	X	X	X	X	-

*Status: fall semester 2017

YOUR MAJOR-/MINOR OPTIONS

WHY ARE NOT ALL COMBINATIONS POSSIBLE?

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While all efforts are being made to have ample minor options for the students, the following limitations apply:

1) There will be always 3 CHOICE lectures running in parallel, that is, in the same time slots, which in part excludes the selection of these study programs as minor.

2) Even if a particular CHOICE module can be taken as minor, not all CORE modules in the corresponding minor may be accessible in the 2nd year

- for prerequisite reasons: For programs with two mandatory CHOICE modules, access to CORE modules may be limited, because minor students may only have attended one of the two associated CHOICE module.
- for scheduling (time table) reasons: However, there should always be at least one robust CHOICE-CORE combination, because the lectures of the CORE module which has the corresponding CHOICE module as prerequisite can be scheduled to run in the same time slots.

Interesting fact:
Only 7 students needed to adapt their CORE module selections for 2016/17.

PRE-REGISTRATION

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1. The full-year modules need to be planned well in advance. Therefore, students will be asked to preregister for 2nd-year CORE modules during April/May 2018 for the upcoming study year in September 2018.

2. This will allow, for example, to identify the most popular CORE modules for minors and to arrange them in favorable time slots. It will also allow students to be informed in advance if they need to select an alternative module to pursue their minor.

DOUBLE MAJOR POSSIBILITY

Enrolling in a double major is possible, but less attractive than pursuing a "minor":

- An **extra (paid) semester** (with extra Project/Thesis Module and Specialization Module in Degree 2) needs to be added.
- You are not allowed to register for two different Thesis Projects in the same semester.
- At least **one extra CORE** module from the 2nd major, either in year 2, or during year 3 (for Campus students), needs to be attended
- Some **additional restrictions**.

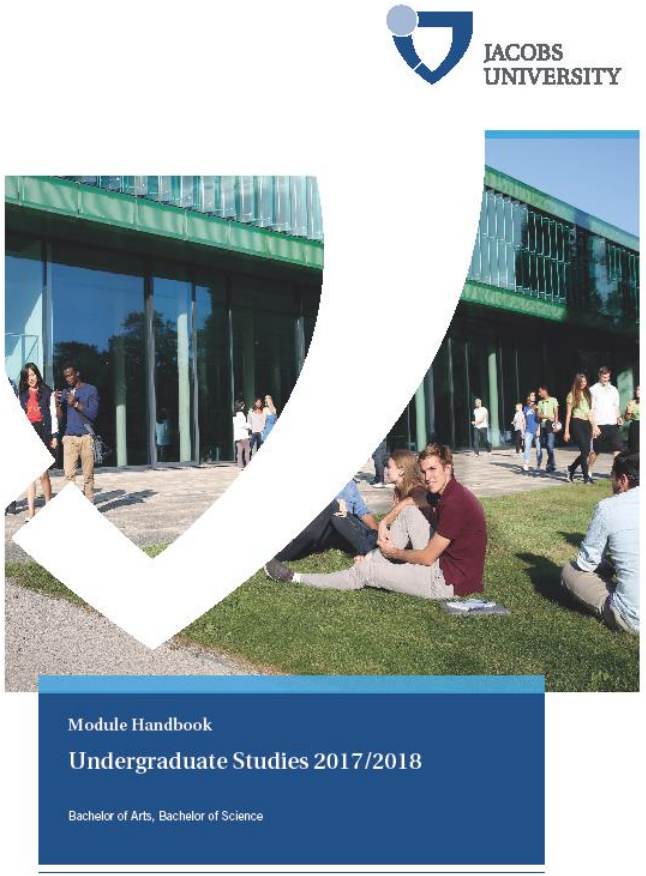
DECISION TOOLS:
OUR MODULE HANDBOOK

Our module handbook…

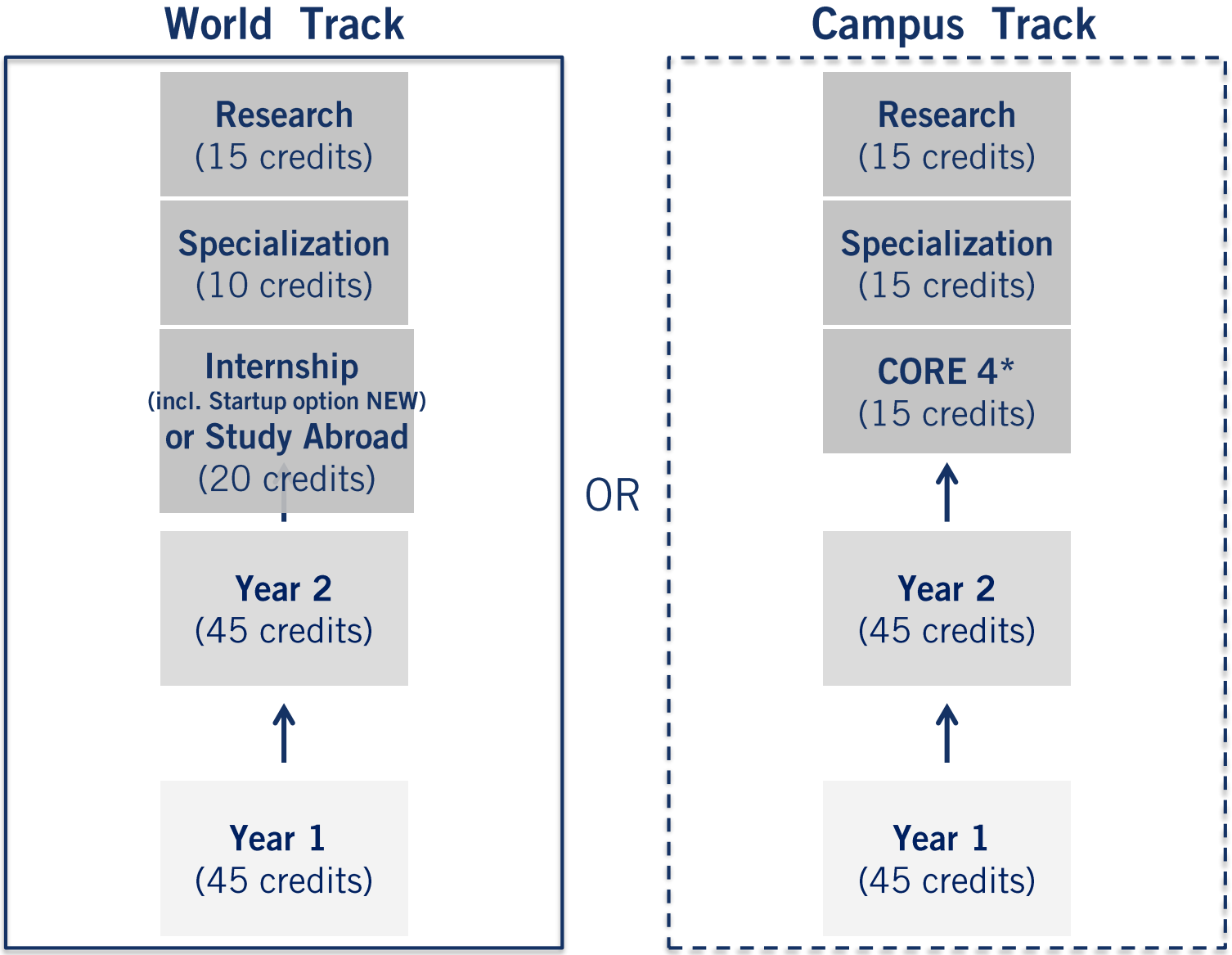
- Lists all modules, in particular CHOICE and CORE modules
- Will help you to make informed module choices
- Will help you selecting minors
- Contains important information on the modules, e.g. pre-requisites
- Is available as a download from each program webpage

Past study year info:

- Participants: **29**
- Average grade: **2.2** (1.0 = best)
- Passing rate: **100%**
- Student rating: **4.4/5** (5 = best)
- Feedback rate: **72%**



CAREER YEAR 3



*prerequisites must be met

WORLD TRACK VS. CAMPUS TRACK

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- All students follow the **World Track** or, alternatively, the **Campus Track**.
- Latest after your 4th semester, you need to decide and register for an **internship** or for **study abroad (**or for the **new start-up option)**.
- Students who don't do an internship or study abroad change to the **Campus Track**.
- All students attend the (credit-free) **Career Skills Training and Advising** throughout their studies regardless of the chosen Track.
- By default, upon entry, students are registered for the World Track.

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WORLD TRACK: STUDY ABROAD

YULIYA SALAUYOVA

INTERNATIONAL OFFICE

BREMEN, 31 AUGUST 2017

INTRODUCTION

- **What?** When selecting the "world track", students can spend their fifth semester studying abroad at a partner institution
- **Where?** Different country (not Germany and not home country)
- **Funding?** Can be partially supported through Erasmus+ and DAAD funding
- **Deadline?** December 1st

WHY?

- Cultural immersion
- Language skills
- New academic culture
- Expanding academic profile
- Potential graduate school

FOCUS AREA MOBILITY: EXAMPLES

- MAJORS
  - Electrical and computer engineering
  - Computer science
  - Logistics
  - Mathematics
  - Industrial engineering & management

- PARTNERS
  - University of Pennsylvania (USA)
  - Carnegie Mellon University (USA)
  - Texas Tech University (USA)
  - University of Groningen (Netherlands)
  - UNIST Ulsan National Institute of Science and Technology (South Korea)
  - Kadir Has University (Turkey)

FOCUS AREA HEALTH: EXAMPLES

- MAJORS
  - Biochemistry & cell biology
  - Chemistry
  - Earth & environmental sciences
  - Medicinal chemistry & cell biology
  - Physics
- PARTNERS
  - Cornell University (USA)
  - Rice University (USA)
  - University of Aberdeen (UK)
  - Amsterdam University College (Netherlands)
  - Technion Israel Institute of Technology (Israel)
  - Yonsei University (South Korea)

FOCUS AREA DIVERSITY: EXAMPLES

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- MAJORS
  - Global economics & management
  - International business administration
  - Integrated social sciences
  - International relations: politics & history
  - Psychology

- PARTNERS
  - University of Edinburgh (the UK)
  - Sciences Po (France)
  - Instituto de Empresa (Spain)
  - Uppsala University (Sweden)
  - St. Petersburg State University (Russia)
  - Fudan University (China)

Study Abroad Options*

Major	Exchange Partner	Europe													America							Asia								
		# Exchange Partners	# accessible places (in total)	Amsterdam University	University College	Rijksuniversiteit	University of Aberdeen	University of Edinburgh	University of Olso	Uppsala University	IE University - Instituto	Sciences Po	Kadir Has University	St. Petersburg State	University of san	Rice University	Texas Tech University	University of	Carnegie Mellon	Cornell University	Washington State	Underwood International	Ulsan Nat. Inst. of Scince	Fudan University	Yamanashi Gakuin	Thammasat University	IDC Herzliya	University of Haifa	Technion - Israel Inst. of	Hebrew University of
	#places	27	106	4	4	2	10	10	2	2	2	4	6	5	3	4	2	2	4	4	4	6	6	4	2	2	5	4	1	2
Health	BCCB	11	52	X	X		1						X			X	X	X		**X**	**X**	X	X							
	MCCB	10	46	X	X		X									X	X	X		1	X	X	X							
	Chem	10	39	X	X	**X**	X									**X**	X	1			X		X						X	
	EES	8	40	X			1									X	X			X	X	X	X							
	Physics	7	34	X	X	X	X									**2**					X		X							
Mobilty	Math	7	34	**X**	X	X	X									**X**					X		X							
	CS	9	39			X	X							X		**X**	X	X	**2**		**X**		X							
	IMS	8	35			X	X						X	X		1	X	2			X									
	ECE	7	34				X						X			X	X	**X**			X		X							
	IEM	4	24			X	X						X				1						X			1				
D.	GEM	11	58				X	**4**			1	**2**	X	X	1	**X**				1	1	X			X	2		X		

WHAT IS NEXT?

September, 2018

Attend the Information Session

October, 2018

Attend the Study Abroad Fair

November, 2018

Select up to 3 destinations

December 1st, 2018

Deadline!

Fall Semester, 2019

Study abroad

CONTACT:

JACOBS UNIVERSITY BREMEN

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INTERNSHIP APPROVAL PROCESS

JACOBS UNIVERSITY

Registration

1. Internship Status Form (online, to CSC = Career Services Center)
2. Internship Approval Form (signed by the Acadamic Advisor)

Both forms have to be submitted by students to the CSC

Requirements:

- 4 consecutive months (=16 weeks) from June to January
- Major-related!

By February 15th students have to submit to CSC:

1. Internship Report (*www.Jacobs-university.de/career-services*)
2. Supervisor's Reference Letter

CSC forwards internship papers to respective Academic Advisors for **final approval.**

NEW: ALTERNATIVE TO INTERNSHIP
STARTUP PROJECT WITH CITY ACCELERATOR BREMEN

JACOBS UNIVERSITY

- As an **alternative to the regular internship**, a limited number of students / teams of students have the opportunity to prepare **in a structured manner** the formation of their own startup in the 5th semester, and can attain 20 ECTS for this **study-related achievement.**

- Jacobs University cooperates with the City Accelerator Bremen (CAB) to which students / teams of students can be admitted.

- To be accepted to this startup option **several requirements** must be fulfilled by all team members **by the end of the 4th semester**, i.e.
  - Attendance of specific seminars and workshops (at Jacobs University and CAB).
  - Successful presentation of the business idea at a competitive pitch.

- The module is successfully completed, when the student / team of students have submitted the business plan to CAB.

- Further information is available from the Career Services Centercsc@jacobs-university.de) on request and in an **information session in Fall 2019**

CAREER SKILLS TRAINING AND ADVISING

- Is a **mandatory component** of the Jacobs University's *Advising and Counseling Scheme*. Further components are "Academic Advising" and "Psychological Counseling and Intercultural Services".
- The mandatory **Career Skills Training and Advising is organized by Career Services Center and** prepares all undergraduate students at Jacobs University for the transition from student life to working life as well as for their future career.
  Skills, knowledge and information which are fundamental for participation in an internship or a semester abroad will be conveyed concurrently.
- Essential components include **information sessions, compulsory seminars** on various career-relevant topics as well as participation in the annual **Jacobs Career Fair**.
- ECTS credits are not awarded.
- All undergraduate students will be automatically registered for the Career Skills Training and Advising. However, **every student has to keep track of his/her individual fulfillment of requirements and has to register on CampusNet for all seminars and sessions during the official registration period at the beginning of each semester.**

For more information contact the Career Services Center at:

www.jacobs-university.de/career-services

CAREER ADVISING
FOR UG SUDENTS MATRICULATED FALL 2017

JACOBS UNIVERSITY

SEMESTER	1	2
MANDATORY BASICS	CSC-INFO Session: "CSC Services" CA01-990000	
MANDATORY SEMINARS	Both seminars have to be attended in your first or second semester: CSC-APPLICATION TRAINING CA01-990001 CSC-RESEARCHING & CONTACTING EMPLOYERS CA01-990004	

SAVE THE DATES: CAREER SKILLS

JACOBS UNIVERSITY

Mandatory Information Sessions (for undergraduate students)

- **CSC (Career Services) Information Session**
  - How can you benefit from our Career Services
  - Receive information on the mandatory *Career Skills Training and Advising*

  Tuesday, Sept 26 / Oct 05, 17:15 – 20:30
  (automatic registration / 2 groups)

- **CSC Information Session WORLD TRACK**
  - Receive information on the options in your 5th semester: Internship / Startup / Study Abroad / Campus Track
  - Learn how and when you will have to register

  When: in FALL 2018 / in your second year of studies

INVITATION

JACOBS UNIVERSITY

SAVE THE DATE:

Jacobs Career Symposium 2017

"Ways of Innovation: What is driving societal and economic change today?"

at Alumni Homecoming 2017

September 22, 2017, 18:30 / ICC Conference Hall

Panel Discussion with Jacobs Alumni:

Sebastian Blümmert	Class of 2011/ Lufthansa Cargo AG
Anna-Lena Schindl	Class of 2012 / Fraunhofer Venture Lab
Rebecca Loeffler	Class of 2011 / SAP Innovation Center – Berlin
Mitul Jain	Class of 2009 / r4 - Artificial Intelligence
Ewa A. Treitz	Class of 2007 / Black Pearls VC - Munich
Tonalli Arreola	Class of 2012 / Polymath Ventures
Mohsin Dar	Class of 2013 / Accenture - Munich

SPECIALIZATION OPTIONS

JACOBS UNIVERSITY

CAVE UNIVERSITY

**“SO YOU ARE STUDYING HUNTING.
WHICH ANIMALS DO YOU WANT TO SPECIALIZE ON?”**

SPECIALIZATION MODULE

The curricular structure offers additional elements of specialization in the 3rd CAREER year **through selection of individual courses:**

- 10 ECTS for the World Track (only spring!) and 15 ECTS for the Campus Track (fall and spring).
- The specialization portfolio modules offer the possibility to select up to 4 specialization courses in 3rd year (2.5 ECTS).
- The specialization portfolio modules offer the possibility to include single courses from the 2nd-year modules (5 ECTS). Module prerequisites must be met.
- Both 3rd-semester courses and 4th-semester 2nd-year courses are accessible.*

* World track students can access individual fall semester courses only during the 3rd semester.

SPECIALIZATION COURSES SPRING 2018
(PRELIMINARY)

JACOBS UNIVERSITY

Health (BSc) | **Mobility (BSc)**

BCCB	MCCB	Chemistry	EES	PHY	MATH	CS	IMS	ECE
Ribogenetics	Project/Thesis Seminar MCCB	Advanced Synthesis	Earth, Ocean and Environmental Sciences FieldLab (5 ECTS)	Biophysics	Number Theory I	Data Technologies	Marine Robotics (5 ECTS)	Coding Theory (5 ECTS)
Res. Approaches in Molecular Life Sciences (WT)	Introduction to Biophysical Chemistry	Organometallic Chemistry		Particles and Fields	Number Theory II			
Current Topics in Molecular Life Sciences (5 ECTS)	Binding and Enzyme Assays	Methods for Bioconjugation	Current Topics in Resource and Envir. Sciences	Solid-State Electronic Devices	Foundations of Mathematical Physics I	Programming in Java	Modeling Dynamics in Industrial ..(from IEM)	Wireless Communications II (5 ECTS)
	Pharmaceutical Formulation and Targeting Techn.	Structure Elucidation of Biomolecules	Current Topics in Earth and Marine Sciences	Advanced Optics	Foundations of Mathematical Physics II	Distributed Algorithms	Distributed Algorithms (from CS)	
Microbial Pathogenicity	Concepts and Applications of Metabolism	Introduction to Biophysical Chemistry (from MCCB)	Theoretical and Computational Physical Oceanography	Advanced Quantum Physics	Differential Equations I	Big Data Bases and Cloud Services (from Data Engineering)	Advanced Digital Design (5 ECTS, from ECE)	Advanced Digital Design (5 ECTS)
Experimental Strategy Design (Intersession)	Structure Elucidation of Biomolecules (from CHEM)	Binding and Enzyme Assays (from MCCB)	Res. and Environ. Behavior of Crit. High-Tec Metals (Intersession)	Theoretical and Computational Biophysics (from DE)	Differential Equations II			

SPECIALIZATION COURSES SPRING 2018
(PRELIMINARY)

JACOBS UNIVERSITY

Mobility (BSc) — **Diversity (BA)**

MATH	CS	IMS	ECE	IEM	GEM	IBA	IRPH	ISS
Number Theory I	Data Technologies (5 ECTS)	Marine Robotics (5 ECTS)	Coding Theory (5 ECTS)	Modelling Dynamics in Industrial …	Country Lab I	Contemporary Research Issues in Marketing	Women in History and International Politics	Cooperation and Conflict: Russo-European … (Intersession)
Number Theory II				IT Applications in Production and Logistics	Country Lab II	Current Issues of International Organizations	Oppression, Conformity and Resistance …	From Theory to Practice: Sociological …
Foundations of Mathematical Physics I	Programming in Java	Modeling Dynamics in Industrial ..(from IEM)	Wireless Communications II (5 ECTS)	Quality and Risk Management Methods	Econometrics Lab	Contemporary Issues in Finance and Accounting	China: Politics, Economy, Society	Between Respect and Rebellion …
Foundations of Mathematical Physics II	Distributed Algorithms	Distributed Algorithms (from CS)		Ethics and Sustainability in Production …	Development Lab	Design Thinking (Intersession)	The Problem of Power: An Introduction …(Intersession)	Advanced Methods in the Social Sciences
Partial Differential Equations I	Big Data Bases and Cloud Services (from Data Engineering)	Advanced Digital Design (5 ECTS, from ECE)	Advanced Digital Design (5 ECTS)	Procurement & Purchasing	Environment and Resource Lab	Innovation Lab (from GEM)	Political Science and Employment (Intersession)	Women in History… (from IRPH)
Partial Differential Equations II				Distribution & E-Commerce	Innovation Lab	Quality and Risk Management Methods (from IEM)	Development Lab (from GEM)	Oppression, Conformity and Resistance … (from IRPH)

SPECIALIZATION COURSES SPRING 2018
(PRELIMINARY)

JACOBS UNIVERSITY

Diversity (BA) — **Health (BSc)**

GEM	IBA	IRPH	ISS	PSYCH	BCCB	MCCB	CHEM	EES
Country Lab I	Contemporary Research Issues in Marketing	Women in History and International Politics	Cooperation and Conflict: Russo-European … (Intersession)	Managing Demographic Change in …	Ribogenetics	Project/Thesis Seminar MCCB	Advanced Synthesis	Earth, Ocean and Environmental Sciences FieldLab (5 ECTS)
Country Lab II	Current Issues of International Organizations	Oppression, Conformity and Resistance …	From Theory to Practice: Sociological …	Neuroscience of Aging	Res. Approaches in Molecular Life Sciences (WT)	Introduction to Biophysical Chemistry	Organometallic Chemistry	
Econometrics Lab	Contemporary Issues in Finance and Accounting	China: Politics, Economy, Society	Between Respect and Rebellion …	Psychology of Food	Current Topics in Molecular Life Sciences (5 ECTS)	Binding and Enzyme Assays	Methods for Bioconjugation	Current Topics in Resource and Envir. Sciences
Development Lab	Design Thinking (Intersession)	The Problem of Power: An Introduction …(Intersession)	Advanced Methods in Social Sciences	Psychology of Happiness		Pharmaceutical Formulation and Targeting Techn.	Structure Elucidation of Biomolecules	Current Topics in Earth and Marine Sciences
Environment and Resource Lab	Innovation Lab (from GEM)	Political Science and Employment (Intersession)	Women in History and International (IRPH)	Human Neuroscience Advanced Lab (Intersession)	Microbial Pathogenicity	Concepts and Applications of Metabolism	Introduction to Biophysical Chemistry (from MCCB)	Theoretical and Computational Physical Oceanography
Innovation Lab	Quality and Risk Management Methods (IEM)	Development Lab (from GEM)	Oppression, Conformity and Resistance … (IRPH)	From Theory to Practice: Sociological … (ISS)	Experimental Strategy Design (Intersession)	Structure Elucidation of Biomolecules (from CHEM)	Binding and Enzyme Assays (from MCCB)	Res. and Environ. Behavior of Crit. High-Tec Metals (Intersession)

SUMMARY: ASSETS OF THE 3C MODEL

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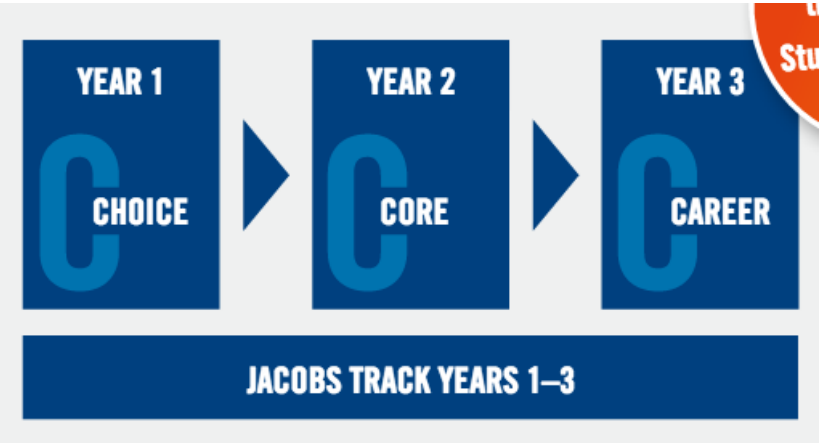
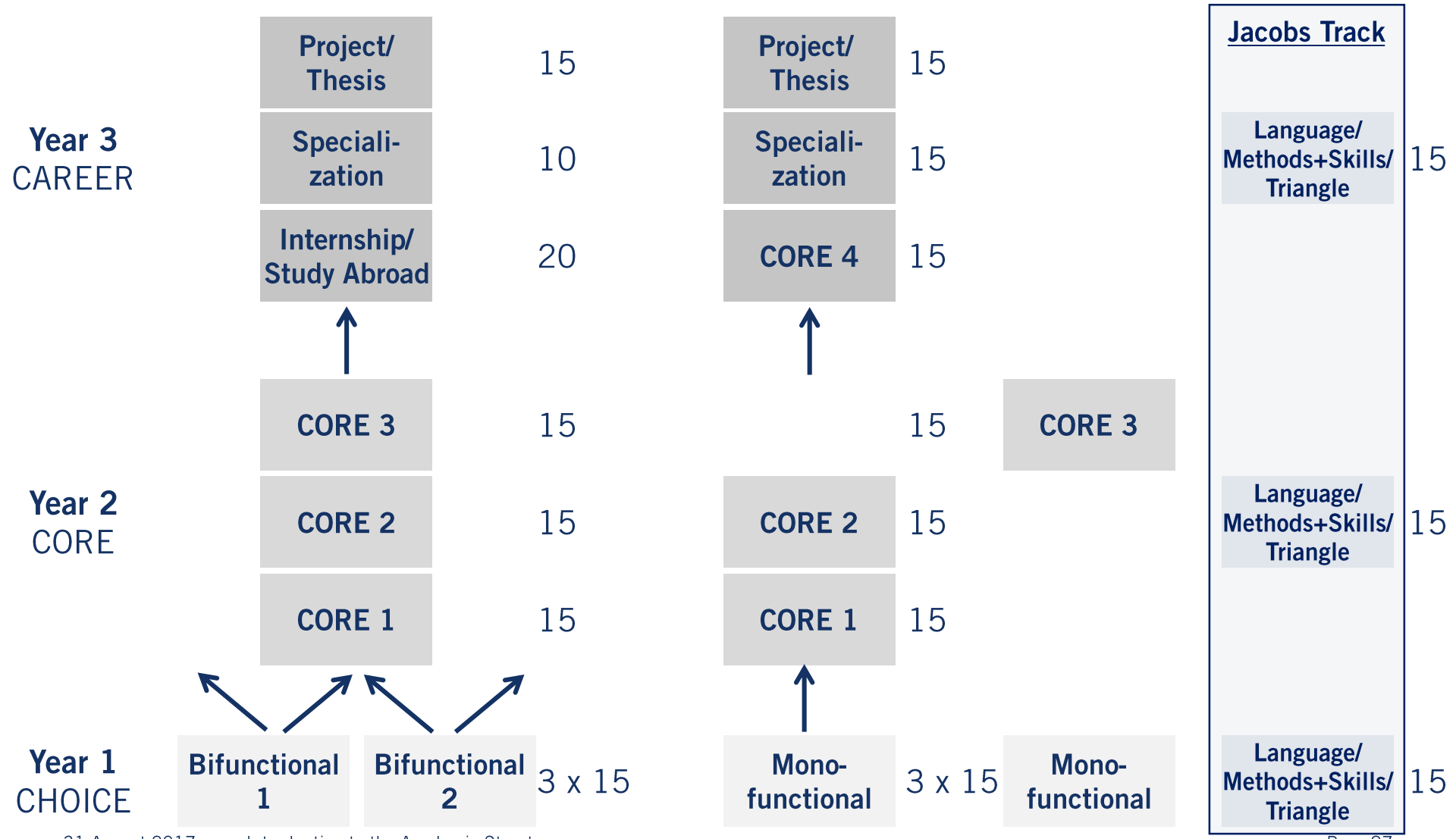
The 3C curricular structure offers

- Flexibility in CHOICE of study program after year 1
- Selection of CORE modules in year 2, also from 2nd discipline
- Selection of specialization courses and international/internship components in the CAREER year 3
- Individualized education within Jacobs Track



OFFERING FLEXIBILITY
TWO STUDY ROUTE EXAMPLES



ADVISING IN ORIENTATION WEEK

JACOBS UNIVERSITY

Thursday, 31 August	**Students sign up with their Academic Advisor**
Friday, 1 September	**Incoming Students meet with Academic Advisors** 10:00 – 12:00 Office hours Undergraduate Studies Coordinator in RLH 258
Monday, 4 September	**Annual Opening** (9:30 – 10:30) (Sports & Convention Center) **Classes begin** (11:15)

JACOBS UNIVERSITY

THANK YOU FOR YOUR ATTENTION.

Any Questions?