Welcome and information: (pre)master programs ABP and CME

Department of the Built Environment
Welcome to our (pre)master programs

Prof. ir Bert Snijder
Graduate Program Director
Introduction to the Master Programs ABP + CME

Prof. ir Bert Snijder (Graduate Program Director)

Department of the Built Environment
Aim

- Introduction
- Master of Science
Graduate School

- Graduate School of TU/e offers: MSc, EngD and PhD programs
  - MSc: prepares for professional or academic career – 2 years
  - EngD: design oriented, more ‘practical’ – 2 years
  - PhD: research oriented, more ‘theoretical’ – 4 years

- Academic community
  - MSc students have contacts with staff members, and EngD and PhD students
Graduate School

Master of Science

- Department of the Built Environment offers:
  - Two MSc programs
  - One EngD program
  - One PhD program

MSc
Master of Science

- Architecture
- Building and Planning
- ABP
- Construction Management and Engineering
- CME

EngD
Professional doctor in engineering

- Smart Buildings and Cities
- SBC

PhD
Doctor of Philosophy

TU/e
Graduate School

ABP – main master tracks:

• Architectural Urban Design and Engineering  AUDE
• Urban Systems and Real Estate  USRE
• Building Physics and Services  BPS
• Structural Engineering and Design  SED
• Sustainable Urban Mobility Transition  SUMT *
• Smart Mobility Data Science and Analytics  SMDSA *

* special admission requirements + 2 universities involved
Graduate School

CME:

• Development and execution of urban development processes in smart cities

• Jointly by the departments Built Environment (BE) and Industrial Engineering and Innovation Sciences (IE&IS)

• 4TU.Federatie: electives at 3 universities

• Graduation tracks:
  • City Information Management
  • Building Information Management
Graduate School

Possible combinations:

- Within ABP: double tracks
  - Architecture and Urban Design
  - Architecture and SED
  - Architecture and BPS
  - Architecture and USRE

- CME with ABP/USRE: double degree

- Many possibilities in shaping your Personal Study Program
Graduate School

International Experience:

• TU/e recommends ≥ 15 credits obtained abroad
  • Semester at partner university
  • Research internship
  • Part of the graduation project
Graduate School

Student teams:

• Beer crate bridge
• Printed bridge Gemert
• CASA house Brainport Smart District
• VIRTUe
• Towards Challenge Based Learning
Sources of information

- Education Guide (educationguide.tue.nl)
  - Programs / tracks
  - Regulations

- MyTU/e student portal
  - Osiris – course catalog
  - Canvas – learning environment
  - MyTimetable – timetables
  - Mobility Online

Online systems (tue.nl)
**Teaching staff...**

- ... is there for:
  - Knowledge
  - Guidance
  - Assignments
  - Feedback
  - Assessment

**Mentors (teacher coach)...**

- ... are there to discuss:
  - Curriculum choices
  - Proper scientific behavior
  - International experience

**Who is your mentor?**

- SED: Floor van Schie
- SUMT/ SMDSA: Soora Rasouli
- AUDE: the supervisor of your first master project is your mentor
- BPS: approach your education officer Katrin Schollbach
- USRE and CME: approach your education officer Feixiong Liao
ABP + CME structure

**Core courses:** 15-55 EC
Mandatory

**Specialization electives:** 5-35 EC
Discuss with your mentor

**Free electives:** 15-30 EC
MSc-level worldwide

**Graduation project:** 30/40/45 EC

_________

120 EC
## Course overview ABP and CME

<table>
<thead>
<tr>
<th>Quarter 1</th>
<th>Quarter 2</th>
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<tbody>
<tr>
<td>7QX5M0 Seminar urbanism and architecture</td>
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<tr>
<td>7QW5M0 Research in urbanism and architecture II</td>
<td>7QW6M0 Architectural and urban theory</td>
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<tr>
<td>7QX1M0 Masterproject 1 architecture (10 ECTS)</td>
<td>7QX7M0 Architectural analysis</td>
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<tr>
<td>7QW1M0 Masterproject 1 urbanism (10 ECTS)</td>
<td>7QW7M0 Theory and practice of the public domain</td>
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<tr>
<td>7XW1M0 Combined masterstudio Architecture and Urban Design (10 ECTS)</td>
<td>7XX3M0 Urban trends and strategies</td>
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<tr>
<td>7KS1M0 Masterproject building technology</td>
<td>7LL1M0 Sports and building aerodynamics</td>
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<tr>
<td>7QQ1M0 Architectural expression</td>
<td>7QQ1M0 Architectural expression</td>
</tr>
<tr>
<td>7QQ3M0 Arts and architecture</td>
<td>7QX7M0 Architectural analysis</td>
</tr>
<tr>
<td>7QW7M0 Theory and practice of the public domain</td>
<td>7KS3M0 Practical assignment &quot;Bouwkundewinkel&quot;</td>
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<tr>
<td>7QX8M0 Urban form</td>
<td>7QW8M0 The built-up heritage over time</td>
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<tr>
<td>7RC100 Inner-city modular high-rise</td>
<td></td>
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<tr>
<td>7XX4M0 The thinking eye</td>
<td></td>
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<tr>
<td>7XC1M0 Circularity in the built environment</td>
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<tr>
<td>7KS3M0 Practical assignment &quot;Bouwkundewinkel&quot;</td>
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Master Kick-off ABP and CME

[Educationguide.tue.nl](http://Educationguide.tue.nl)
Choices to make

- Registertrack
- Double track
- Internship (5 or 15 EC)
- Study period or internship abroad
- Certificate program
- Honors program
- Graduation topic

Discuss these choices with your mentor
ABP Register tracks

Register tracks:
AUDE- qualified to register as an architect
AUDE- qualified to register as an urban designer

Combination of register tracks:
AUDE- qualified as an architect and an urban designer
(150 EC; for selected group of students)

Note: two years of professional experience are required for registration.
ABP Double tracks

Double track combinations:
• Architecture + Urbanism
• Architecture + Structural Engineering and Design
• Architecture + Building Physics and Services
• Architecture + Urban Systems and Real Estate

Characteristics:
• 150 EC (so: 120 + 30 EC or + 1 semester)
• For selected group of students
• Both tracks are stated on the diploma
Internship

Two types:
• Relevant work experience (5 EC)
• Academic work experience (15 EC)
• Abroad or not?

• For vacancies see websites of the study associations (CHEOPS, AnArchi, KOers, Mollier, ofCoUrsE!, SERVICE)

• Internships (tue.nl)
International experience

Options:

1. Studying a semester abroad at one of our exchange partners.
2. Doing a 15 EC academic research internship abroad.
3. Going abroad for a MSc thesis related project.

See hand-outs *Study semester abroad* and *Internship abroad* in the Education Guide.

[International experience (tue.nl)]
Certificate programs

- **Building Design and Technology**
  - 7KP8M0 Building methodology and technology
  - 7KP9M0 Building technology with extreme complexity
  - 7KS1M0 Masterproject building technology

- **Construction Technology**
  - 7RC100 Procurement
  - 7ZM7M0 Parametric design
  - 7RC50 Masterproject construction plan

- **Circular Design**
  - 7XC1M0 Circular design in the built environment
  - 7XC2M0 Circular research and design project

5 EC per program on top of 120 EC

[Certificate programs (tue.nl)](http://www.tue.nl)
Honors master program

Explore and develop your personal leadership skills in a professional context.

• 20 EC on top of your regular program
• 2 components
  – Personal leadership development (5 EC)
  – Professional development (15 EC)

Information session: 15 September 2023, 12.35-13.25, location Luna 1.240

Master students (tue.nl)
PIT: Professional Identity Training

Preparation for a career that fits you!

Content of the program

- Questionnaire + report
- 1st training session: Theory and understanding report
- 2nd training session: Focus on career development and practical applications

Setup

- All TU/e master students
- Planned in Quartile 2 as a separate training (preparatory for internship)
- Enroll via Osiris in Quartile 1
- More information will follow via Canvas
Graduation topic

Start your orientation on a graduation topic in time.

- Use the available information: graduation guides, kick-off meetings, study associations, Canvas information
- Talk with other students, your mentor, teachers
- AUDE: graduation studios start every quartile. Topics are published in the semester brochure, 2 months before each semester

ABP: Graduation project (tue.nl)
CME: Graduation (tue.nl)
Registration for courses and examinations

<table>
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<th>Quarter</th>
<th>Registration deadline</th>
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<tr>
<td>Q1</td>
<td>27 August 2023</td>
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<tr>
<td>Q2</td>
<td>15 October 2023</td>
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<td>Q3</td>
<td>7 January 2024</td>
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<td>Q4</td>
<td>24 March 2024</td>
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Questions? Please contact: ESA Helpdesk via esahelpdesk@tue.nl
Registration examinations

• Registration is needed for all examinations, not only the written ones.

• Registration for examinations: automatically (except for the resits) when you register for courses....

• ....but only if your enrollment is finalized. If not, register via Osiris no later than October 16.

• Check your registration in Osiris!
Next steps

You will receive a letter with the following instructions:

1. If necessary, contact the education officer of your track.
2. Write your personal study plan, discuss it with your mentor, submit it to the examination committee.
3. Sign the declaration concerning the TU/e Code of Scientific Conduct, submit it to the ESA Office (esa.be@tue.nl)
Building your future: You do it yourself, but not alone!

Education officers of the tracks:

- **AUDE:** ir. Maarten Willems  
  m.h.p.m.willems@tue.nl
- **BPS:** dr. Katrin Schollbach  
  k.schollbach@tue.nl
- **SED:** dr. ir. Faas Moonen  
  s.p.g.moonen@tue.nl
- **USRE:** dr. Feixiong Liao  
  f.liao@tue.nl
- **CME:** dr. Feixiong Liao  
  f.liao@tue.nl

Contact the education officer of the track to get a mentor assigned (except for AUDE, SED, SUMT and SMDSA).
Keep an eye on Canvas 7IMPBE (Master) or 7IPPBE (Premaster)

• Keep your notifications on!

• Important information about your study program
**Academic Advisors**

... are there to help you with:

- Study related problems
- Personal issues
- Mrs. Josée Pulles, Mrs. Lisanne Kamphorst-Schmit
- Academic.advisor.msc.be@tue.nl

**Education and Student Affairs**

... is there for specific issues:

- Where: VRT 2.12 - Make an appointment
- Information desk: Mrs. Sylvia van Beek, Mr. Julius de Haas, Mr. Arnoud Lippmann esa.be@tue.nl
- Education Coordinator BE: Mrs. Judith Smits education.coordinator.be@tue.nl
- Departmental internationalization officer: Mrs. Henny Houben exchange.be@tue.nl
- Secretary of the Examination Committee BE: Mrs. Vanessa Buijsen examination.committee.be@tue.nl
Tip: reach out to your friends or family as well! You are not alone!
More information? Check it on the student guidance page. Also have a look at the group training sessions we offer. Not sure where to go? Contact your academic advisor.
NOW: Information about CHEOPS and quiz
## Presentation per track

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<tr>
<th>Track</th>
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<tr>
<td>BPS</td>
<td>VRT 8.08</td>
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<tr>
<td>CME</td>
<td>VRT 7.08</td>
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<tr>
<td>SED</td>
<td>VRT 5.07</td>
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<tr>
<td>USRE</td>
<td>VRT 9.08</td>
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<tr>
<td>SUMT/SMDSA</td>
<td>VRT 6.06</td>
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<tr>
<td>Premaster</td>
<td>VRT Trappenzaal</td>
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<tr>
<td>AUDE</td>
<td>Atlas 0.820</td>
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