Study Guide 2022-2023

Tinbergen Institute Research Master's Program
August 2022
Preface

It is a pleasure to welcome you to a new year of graduate studies at the Tinbergen Institute (TI), the graduate school and research institute in economics, jointly operated by the schools of economics of the Erasmus University Rotterdam (EUR), University of Amsterdam (UvA) and Vrije Universiteit Amsterdam (VU).

The TI Research Master program is a two-year, research master in economics, econometrics and finance that endows students with the skills needed to write a PhD thesis. In the first year of the TI Research Master, students receive rigorous training in the core topics of microeconomics, macroeconomics, econometrics and, optionally, finance. Students with a strong background in econometrics can choose the advanced econometrics track. Students who aim to pursue a major in finance substitute two core courses in micro- or macroeconomics with two courses in finance. In its second year, students specialize in their choice from TI’s many fields of research through field course work and a Research Master thesis.

Throughout both years students receive training in professional skills (how to write and present research, how to manage research data). They also familiarize themselves with ethical issues in education and research. Finally, they follow dedicated sessions on stress management and personal growth.

The three faculties participating in TI have PhD positions available for students who have completed the TI Research Master. Most students who perform well in the Research Master program find a supervisor at one of the three faculties (usually the Research Master thesis supervisor will act as PhD supervisor).

TI offers job market training to PhD students in the last year of their appointment. This training program consists of workshops where students learn how to prepare for the academic job market, followed by mock interviews in which students learn to present themselves and their research in front of a committee.

Finally, we would like to draw your attention to the two annual TI Lectures Series in economics and econometrics. Each is a series of two- or three-day lectures by leading researchers. This year we have already scheduled the econometrics lecture on November 10 and 11. The lecturer is Stephane Bonhomme (Chicago University). We plan to have the economics lecture in June.

Rotterdam, August 2022

Benoit Crutzen
Director of Graduate Studies
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The Tinbergen Institute (TI) research master is a joint degree in economics, econometrics, and finance of Erasmus University Rotterdam (EUR), University of Amsterdam (UvA) and Vrije Universiteit Amsterdam (VU). EUR is the “penvoerder”, the administrative coordinator and manager of the programme on behalf of VU and UvA (and EUR). The academic programme itself is organized by TI, which is the graduate school and research institute in economics of these three universities. Lectures are delivered at TI Amsterdam and on the ESE campus in Rotterdam. Students are registered at EUR, which delivers the master degree on behalf of the three faculties.

A tuition fee is charged to all students. Tuition fees are due until the final examination, the thesis, has been passed. The tuition fees are determined annually by the Dutch government and the universities.

TI has its own Director of Graduate Studies (DGS) and Admission Board. The Examination Board and Educational Board serve two research master programs: the TI program and the Business Data Science program.

Intended learning outcomes

The purpose of the TI research master program is to prepare students for PhD research and an academic career in economics, econometrics, and finance. Structure and content of the research master program are derived from this objective. The research master program is connected to PhD research positions in the three participating faculties but also prepares for research positions or a PhD at highly ranked universities elsewhere.

The TI program offers a research training equivalent to training in the first two years of PhD programs at top US economics faculties. This implies a first year of rigorous and common training in core subjects of economics, econometrics, and finance at a high level that can only be managed by a selected group of students. In the second year, students specialize in their choice TI’s many fields of research through field courses and supervised research for a final thesis.

TI graduates are able to set up and conduct innovative academic research. They have a profound knowledge and understanding of state-of-the-art theories and methods in their field of specialization. Furthermore, they are able to communicate their findings orally and in publishable research papers. Finally, students know what constitutes unethical and unacceptable behavior in the profession.

Below we list the intended learning outcomes for the program.
Research Master graduates are able to set up and conduct innovative academic research in their field of specialization. Furthermore, they are able to communicate their findings orally and in writing. They have a profound knowledge and understanding of state-of-the-art theories and methods in their field of specialization. Research Master graduates have the ability to write research papers, initially under academic supervision, that can be submitted to international, peer-reviewed journals for publication. The program contains three tracks: Economics, Econometrics and Finance.

1. Knowledge and understanding
Research master graduates have
1.1 an overview of the core of economics/econometrics/finance that allows them to broadly read and understand the current scientific literature and follow scientific debates in their field of specialization.
1.2 in-depth and systematic knowledge of an area within economics/econometrics/finance that allows them to successfully embark on independent study of at least one specialized field of research.

2. Applying knowledge and understanding
Research master graduates are able
2.1 to outline a relevant research question in their field of specialization.
2.2 to operationalize the research question and to select and apply correctly complex and advanced techniques and methodology.

3. Making judgements
Research master graduates are able
3.1 to independently set up and carry out scientific research projects in the chosen field of expertise.
3.2 to critically evaluate research outcomes.

4. Communication
Research master graduates are able
4.1 to write research papers that are well structured; texts are written in a fluent and academic style.
4.2 to orally present research findings in a coherent and lively presentation and to give accurate and to the point response to comments and questions before an audience of academic researchers.

5. Learning skills
Research master graduates
5.1 have the skills required for further study in a largely self-directed or autonomous manner.
5.2 respect and practice matters of scientific integrity, ethics, responsible data management and privacy.
Program structure

The first year of the program offers a rigorous training in the core subjects and tools of economics, econometrics, and finance. This ensures that students embark on their PhD research and subsequent academic career with a sufficiently broad understanding of economics to broadly follow academic discourse in economics. Knowledge of the core subjects is required as a foundation for specialized research in the domain of economics, econometrics, and finance and to initiate independent research. In the second-year students develop their research skills and deepen their knowledge in the research areas they are interested in. They also write a thesis. Field courses and specializations reflect the researchers and research groups at the faculties participating in TI. This allows students to find a supervisor for their thesis and subsequently a PhD position at one of the faculties. Since TI is a joint program of three faculties, the program is able to offer a wide array of field courses and specializations.

The thesis (30 ECTS) is the final examination of the program and shows that the student is able to carry out independent research and can make a contribution to the scientific debate. TI aims at theses of exceptional quality such that, after further polishing, they can be published in an international, peer-reviewed scientific journal and can be part of the PhD thesis. The defense of the thesis before an audience of experts is part of the final assessment.

Diversity

The diversity of TI’s student body and teaching staff is one of the defining elements of the institute. TI aims to provide a welcoming environment in which all students can develop their full potential, both as individuals and as members of the academic community. All members of TI—students, staff, and faculty—strive for equal treatment of all, irrespective of ethnicity, nationality, gender and gender identity, sexual orientation, socioeconomic background and disability. TI actively takes steps to ensure that the diversity of the student body is respected by all members of the institution.
The Tinbergen Institute Research Master’s program in 2022-2023

In case of any difference between this study guide and the Academic and Examination Regulations for 2022-2023 (AER), the AER prevails. The second-year requirements in the AER of 2022-2023 apply to the students who are in their second year in the program in 2022-2023.

Calendar for 2022-2023

All regular TI courses are taught in blocks of eight weeks, with lectures during the first six (core courses) or seven weeks (field courses); the eighth week of each block typically serves as an exam week. The exception is block V: to accommodate all field courses and the two lecture series, this block is extended by approximately two weeks. Core course teachers may not assign graded homework in the week prior to the exam.

Under normal (e.g. non-COVID) circumstances and unless otherwise stated explicitly by the DGS, physical, in person course attendance is mandatory; this applies to all core and field lectures, to the Academic Writing course, the Academic Presentation course, the Academic Integrity course, and the Introduction to TI research groups seminar series. Attendance is registered via attendance sheets. First-year (core) courses have weekly tutorials, taught by a teaching assistant, in which students work on and discuss homework assignments.

The calendar for 2022-2023 is:

| Block 0 | August 22-26 | Introduction and Programming course
|         |              | Micro I and Fundamental Math |
| Block I | August 29-October 14 | Lectures |
|         | October 17-21 | Exams |
| Block II | October 24-December 9 | Lectures |
|         | December 12-16 | Exams |
|         | December 19-January 1 | Christmas Holidays |
| Block III | January 2-February 17 | Lectures |
|         | February 20-24 | Exams |
| Block IV | February 27-April 14 | Lectures |
|         | April 17-21 | Exams |
| Block V | April 24-28 | Spring Break |
|         | May 1-July 14 | Lectures and Exams |

The course schedule is available on Erasmus University’s timetable (login with ERNA account) or via the Erasmus University’s course guide.
First year of the program

In the first year of the program students have to complete 60 ECTS: 13 core courses (52 ECTS), 2 field courses (6 ECTS), the Principles of Programming in Econometrics course (1 ECTS), and the Introduction to TI research groups seminar series (1 ECTS).

Core course sequences in year one are:
- Mathematics – Statistics – Econometrics I-III
- Advanced Mathematics – Measure theory and Asymptotic Statistics – Advanced Econometrics I-III
- Microeconomics I-IV
- Macroeconomics I-IV
- Finance I-II

At the start of the academic year, students choose between the Economics and the Advanced Econometrics track and whether they will take the Finance track. The choice of track will be discussed with the DGS before the beginning of block 1.

Students in the Advanced Econometrics track take the Advanced Mathematics course, Measure Theory and Asymptotic Statistics and the Advanced Econometrics courses. While it is recommended to take Measure Theory course in the first year, students can opt to take Statistics in the first year and Measure Theory as a field course in the second year.

Students in the Finance track substitute two of the block III and IV courses in Macroeconomics or Microeconomics with Asset Pricing Theory and Corporate Finance Theory. The choice of the Finance track is independent of the choice of Econometrics track and students can select in both if they wish to.

In block V, students select two field courses out of a designated list of field courses. Please note that at least two first year field courses must be completed with a grade 6 or higher. First year field courses cannot be replaced by first year core courses, second year field courses or by a field paper. Students who fail first year field courses need to retake a first-year field course in the second year of the program. Students cannot take replace second year field courses with extra first year field courses.

All first-year students attend the Introduction to TI research groups seminar series. These seminars allow students to explore the research conducted in the three faculties, meet their researchers and discover all their fields of specialization. These meetings also allow potential supervisors to scout talented students. From this year onwards, seminars take place at the three faculties behind TI. Each faculty visit will entail meetings with multiple departments and research groups.

At the end of the first year, students are admitted to the second year of the program if and only if: 1) they passed week 0’s ‘Principles of programming in econometrics’; 2) they attended sufficient Introduction to TI research groups seminars to get a pass for this series; and 3) they earned at least 46 ECTS by passing enough first year core and field courses with a grade 6 or higher. Students will also need to meet any additional entrance requirements specific to each field course.

The first-year curriculum and tracks: Economics, Econometrics, Finance
The standard first-year Research Master track in Economics consists of the following core courses:
<table>
<thead>
<tr>
<th>Course name</th>
<th>Instructor(s)</th>
<th>ECTS</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Programming in Econometrics</td>
<td>Bos</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Microeconomics I (Individual Decision Making and General Equilibrium)</td>
<td>Karamychev/Van Veelen</td>
<td>4</td>
<td>0/I</td>
</tr>
<tr>
<td>Microeconomics II (Game Theory)</td>
<td>Moraga</td>
<td>4</td>
<td>II</td>
</tr>
<tr>
<td>Microeconomics III (Information and Contract Theory)</td>
<td>Sloof/Sisak</td>
<td>4</td>
<td>III</td>
</tr>
<tr>
<td>Microeconomics IV (Behavioral Economics)</td>
<td>Wakker/Offerman</td>
<td>4</td>
<td>IV</td>
</tr>
<tr>
<td>Macroeconomics I (Stochastic Neoclassical Growth Models)</td>
<td>Brügemann</td>
<td>4</td>
<td>II</td>
</tr>
<tr>
<td>Macroeconomics II (Macroeconomic Policy)</td>
<td>Stoltenberg</td>
<td>4</td>
<td>III</td>
</tr>
<tr>
<td>Macroeconomics III (Frictions and Resource Allocation)</td>
<td>Bartelsman/Gautier</td>
<td>4</td>
<td>IV</td>
</tr>
<tr>
<td>Macroeconomics IV (Financial Frictions in Macroeconomics)</td>
<td>Chen/Wang</td>
<td>4</td>
<td>V</td>
</tr>
<tr>
<td>Fundamental Mathematics</td>
<td>Wagener</td>
<td>4</td>
<td>0/I</td>
</tr>
<tr>
<td>Statistics</td>
<td>Spreij</td>
<td>4</td>
<td>I</td>
</tr>
<tr>
<td>Econometrics I</td>
<td>Camehl</td>
<td>4</td>
<td>II</td>
</tr>
<tr>
<td>Econometrics II</td>
<td>V.d. Klaauw/Bloemen</td>
<td>4</td>
<td>III</td>
</tr>
<tr>
<td>Econometrics III</td>
<td>Koopman</td>
<td>4</td>
<td>IV</td>
</tr>
</tbody>
</table>

For the **Econometrics track**, students with a sufficient background in mathematics, statistics and econometrics can replace Fundamental Mathematics, Statistics and/or Econometrics I, II and III with:

<table>
<thead>
<tr>
<th>Course name</th>
<th>Instructor(s)</th>
<th>ECTS</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Mathematics</td>
<td>Wagener</td>
<td>4</td>
<td>I</td>
</tr>
<tr>
<td>Measure Theory and Asymptotic Statistics</td>
<td>Spreij</td>
<td>4</td>
<td>I</td>
</tr>
<tr>
<td>Advanced Econometrics I</td>
<td>Bos/Koning</td>
<td>4</td>
<td>II</td>
</tr>
<tr>
<td>Advanced Econometrics II</td>
<td>Kleibergen/Pick</td>
<td>4</td>
<td>III</td>
</tr>
<tr>
<td>Advanced Econometrics III</td>
<td>Koopman/Boswijk</td>
<td>4</td>
<td>IV</td>
</tr>
</tbody>
</table>

Students who choose the **Finance track** substitute the block III and IV courses in Macroeconomics or Microeconomics with:

<table>
<thead>
<tr>
<th>Course name</th>
<th>Instructor(s)</th>
<th>ECTS</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Pricing</td>
<td>Laeven/Vellekoop</td>
<td>4</td>
<td>III</td>
</tr>
<tr>
<td>Corporate Finance Theory</td>
<td>Vladimirov/Gryglewicz</td>
<td>4</td>
<td>IV</td>
</tr>
</tbody>
</table>

In block V, the Macro IV core course is compulsory and students choose two field courses from the following **list**:

<table>
<thead>
<tr>
<th>Course name</th>
<th>Instructor(s)</th>
<th>ECTS</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral Macroeconomics and Complexity</td>
<td>Hommes</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Economics of Education</td>
<td>Plug/Oosterbeek</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Experimental Economics</td>
<td>V.d. Ven/Dur</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Empirical Asset Pricing</td>
<td>Andonov/Eiling</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Empirical Corporate Finance</td>
<td>Eisert/Koudijs/Oberndorfer/Verwijmeren</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>International Economics</td>
<td>Klaassen/Emami Namini/Bosker</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Market and Systemic Risk Management</td>
<td>De Vries/Zhou</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Spatial Economics</td>
<td>De Groot/Poelhekke/Verhoef</td>
<td>3</td>
<td>V</td>
</tr>
<tr>
<td>Topics in Distributional Macroeconomics</td>
<td>Greimel/Huber/Perotti</td>
<td>3</td>
<td>V</td>
</tr>
</tbody>
</table>
On top of the above field courses, students can elect to take one of the following TI lectures (if not for credits, attendance is highly recommended):

| TI Economics Lectures 2023     | tba   | V    |
| TI Econometrics Lectures 2022 | Bonhomme | II  |

Program for year 1 in chronological order:

<table>
<thead>
<tr>
<th>Block</th>
<th>Microeconomics/Macroeconomics/ Finance</th>
<th>Econometrics or Advanced Econometrics</th>
<th>Seminar</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Micro I</td>
<td>Principles of Programming</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fundamental Math</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Micro I</td>
<td>Fundamental or Advanced Math</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Statistics or Asymptotic Theory</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Micro II, Macro I</td>
<td>Econometrics I or Advanced Econometrics I</td>
<td>Seminar</td>
</tr>
<tr>
<td>III</td>
<td>Two courses out of the following:</td>
<td>Econometrics II or Advanced Econometrics II</td>
<td>Seminar</td>
</tr>
<tr>
<td></td>
<td>Micro III, Macro II, Finance*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Two courses out of the following:</td>
<td>Econometrics III or Advanced Econometrics III</td>
<td>Seminar</td>
</tr>
<tr>
<td></td>
<td>Micro IV, Macro III, Finance*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Macro IV, Field course 1</td>
<td>Field course 2</td>
<td>Workshop on Research Idea</td>
</tr>
</tbody>
</table>

* The two finance courses have to be taken in combination.

Maintaining a healthy work-life balance
A research master program is very demanding, especially in combination with a change of country and (study) culture. To help you to maintain a healthy work-life balance and to contribute to your personal growth we schedule bi-monthly activities and meetings with a professional PhD student.

Introduction to TI research groups seminar series
The seminar series introduce the research groups at the three TI faculties to the first-year students. In the seminars, TI fellows relate ongoing research projects in their research groups. Aim of the seminar series is to facilitate the matching process between students and prospective supervisors and to introduce researchers to students who they did not (yet) encounter in the classroom.

The research seminars are organized at the three faculties supporting the TI research master. Each faculty visit will take a full or half day and will consist of multiple meetings with different departments. Altogether, these visits count for 1 ECTS.

Workshop on Research Idea
In the first week of block V a 1- or 2-hour workshop on the basics of how to come up with a good research idea and how to write an academic paper will be organized. This workshop is part of the Research Clinic (second year, see page 14).

Registration for and withdrawal from courses
Tinbergen Institute research master students register for courses by means of the registration mode in Osiris student. First-year students do not have to register for courses in blocks I and II. However, starting from block III onwards, students must register for the courses of their choice themselves.
Assessment, grading, credits, and retakes in the core

All courses are graded on a 1.0-10.0 scale, where 1.0 indicates very poor performance, 6.0 is the lowest passing grade, and 10.0 refers to outstanding performance. The final grade for a course block is rounded to the nearest multiple of .0 or .5, with the following exceptions: any grade between 5.0 and 5.5 is rounded to a 5; a 5.5 is rounded to a 6; the lowest possible grade is 1.0. Grades for homework or midterm examinations do not need to be rounded.

Tinbergen Institute does not schedule retakes. Failed exams in the first year cannot be retaken in the same academic year. Instead, students should retake failed first year courses in their second year in the program. Students who miss an examination due to for instance a verifiable illness may apply to the examination board for a retake in the same academic year. The procedure is described below and on the Intranet. Students cannot retake examinations that they have already passed or for which they have earned credits.

All core courses will be concluded by a sit-in examination. Apart from the sit-in examination, results of homework assignments form part of the examination and contribute to the final grade for a course. The final grade for a core course is composed of the average grade for the homework assignments (15%) and the grade for the sit-in examination (85%).

Compensation rule

Because of the level and speed of the master, even the very best students may have a bad day during an exam week and fail an exam. Because of this, for the courses in blocks 1-5 of year one, a compensation rule applies.

The compensation rule only applies to students who are admitted to the second year of the program within their first year of enrollment. The requirements for access to the second year are having earned at least 46 ECTS for first year courses, having completed the ‘Introduction to TI research groups’ and block zero’s ‘Principles of programming in econometrics’ course. The 48 ECTS are computed without using the compensation rule.

Under the compensation rule:

- Students may compensate one 5.0 in the core course sequences econometrics and advanced econometrics with a 7.5 or higher within the econometrics or advanced econometrics sequence.
- Students taking all four courses in the microeconomics and all four courses in the macroeconomics course sequences may compensate at most two grades 5.0 by two grades 7.5 or higher within the course sequences microeconomics/macroeconomics. These two grades 5.0 can be in the same sequence.
- Students replacing two microeconomics/macroeconomics courses by two finance courses may compensate at most two grades 5.0 by two grades 7.5 or higher within the course sequences microeconomics/macroeconomics/finance. Students can compensate two grades 5.0 in the same sequence, provided they have at least one sufficient grade (6.0 or higher) in that same sequence, either within the first year of enrollment, or after a retake of a failed course in the next year.

Any compensated 5.0 counts as a 5.0 in the computation of the student’s GPA.

Students who do not meet the requirements for access to the second year of the program within their first year of enrollment, must retake all first-year exams which they did not pass with a sufficient grade (6.0 or higher).
Right of inspection
As soon as possible and within 28 days of the announcement of the results of a written examination, the student can, by request, inspect his/her assessed work, the questions and assignments set, as well as the standards applied for marking. Inspection of the assessed work can only take place while the student is supervised by the examiner or an employee of the TI education office. A student may lodge an appeal against the way in which the result was reached within six weeks of the announcement of the result; see details below.

Second year of the program

The second year offers a broad range of field courses with a diversity in teaching and assessment methods. Students take courses for 27 ECTS from these field courses. Teaching occurs in working groups of usually 5-15 students, which stimulates active student participation. The final thesis (30 ECTS) is a research project, set up by the student under experts’ supervision. The matching of students and supervisors, while largely the results of individual conversations between the two parties, is supported by the DGS.

Students have to comply with the requirements of the academic year that coincides with their second year in the program. Thus, the rules in this section apply to the 2021 cohort of Research Master students.

Field courses

In general, students have access to second year field courses only after being granted access to year two of the programme. Furthermore, students have to meet the entrance requirements specified for a course they want to register for.

The TI field courses for 2022-2023 are listed here. Note that TI may cancel field courses with fewer than five registered students.

With a few exceptions, students can take a TI core course (but not a first year field course) as a field course. Up to 9 ECTS can be obtained by taking courses not included in the TI curriculum. Students who want to take external courses for credits need permission from the Examination Board (see below). The TI lectures series can be taken for credits. The maximum amount of ECTS obtained in the TI lecture series that may contribute to the 27 ECTS field course requirement is 6.

Taking external courses

Taking external courses for credits needs to be approved by the examination board (see below). The university may charge a tuition fee for the course and additional requirements for participants may apply. Carefully check the university deadlines. We strongly advice to start the procedures at least 2 months before the start of the course. Costs are only reimbursed if the DGS has advised to take the course.

- Courses at Erasmus University Rotterdam: check here.
- Courses at Vrije Universiteit: check here.
- Courses at University of Amsterdam: check here.
- Courses of the national MasterMath program: check here.
Credits for field courses
TI allocates typically 3 credits to any field course, including external courses, irrespective of the number of credits allocated to the same course elsewhere. This also holds for TI core courses followed as field course by students for whom this course was not part of their core. The idea underlying this is that TI requires students to take nine different courses in their second year to specialize in their areas of interest as well as to broaden their perspective. To avoid any discussion about the relative load of different credits in different programs, TI adopts a simple uniform policy of allocating 3 ECTS to every field course.

Field papers
Students are allowed to replace one field course by a field paper which elaborates on a previously completed field course. The requirements for a field paper are provided in the assessment form and rubric. A field paper is an original theoretical or empirical contribution (in about 15-20 pages). The paper is connected to a TI field course that the student has passed but stands on its own and is an extension of material taught in the course. The teacher of the field course grades the field paper. All field papers are checked for plagiarism.

Students register for a field paper at the start of the year and commit later to a topic and supervisor. Students contact the teacher during the course to agree on a topic and deadline. The supervisor reports the grade for the field paper to courses@tinbergen.nl.

Assessment, grading, credits, retakes and inspections in the second year
Assessment methods for field courses are a combination of class participation, presentations in class, essay assignments and take-home or sit-in examinations. No retakes are scheduled for field courses.

Field courses are graded along the same lines as core courses. Tinbergen Institute does not schedule retakes. Instead, students can take another field course or write a field paper to replace the failed course.

Inspections follow the rules for the core courses explained above.

Registration for and withdrawal from courses
Second year students register via Osiris for a full program of field courses amounting to a maximum of 27 ECTS including extra courses, a field paper (if applicable) and external courses before the beginning of the academic year. Registrations for retakes (if applicable) come on top of the 27 ECTS. The registration deadline for field courses is July 15, 2022. Changes in the selection of courses after this date requires explicit support in writing of the student’s supervisor and needs the DGS’ approval. If the lecturers of the TI lectures are not known by that date, students can postpone the registration of two field courses until the lecturers have been named.

Important note: field courses may be cancelled in case fewer than five students sign up for a course. If a course is cancelled, an additional course can be selected by affected students.

Thesis writing
The final thesis (30 ECTS) is an assessment in which students integrate all learning outcomes of the program. The thesis is the final examination of the program and shows that the student is able to carry out independent research and can make a contribution to the scientific debate. We refer to the thesis manual for the procedures and requirements (Intranet). All theses are checked for plagiarism.
TI organizes one graduation ceremony each year, usually in November. This year’s graduation is scheduled for November 18 2022.

**Matching to a (PhD) thesis supervisor**
Typically, second-year students match up with a thesis supervisor before the end of December in the second year. The matching is largely a result of individual conversations between the student and the supervisor. While there is no formal registration process, the DGS supports the matching process by helping students identify faculty members who could be a good match for their research interests. To achieve this, the DGS remains in close contact with each student until a match is found. The DGS and Judith van Kronenburg keep track of every student progress on this front.

The three faculties participating in Tinbergen Institute have PhD positions available for students who have completed the TI research master program. In many cases, the thesis supervisor will fulfill the role of PhD thesis supervisor. The DGS updates the students towards the end of the first year about the number of expected PhD positions at the three universities. Students are advised to check with their thesis supervisor under what conditions they can transfer to a paid PhD position with that same supervisor. Students are also encouraged to investigate externally funded PhD opportunities available at the schools. To facilitate this, potential supervisors present to TI students their externally funded PhD projects.

Note that PhD positions are given by the faculties and that TI has no influence over the number of positions or the distribution of positions to specific supervisors. In a typical year, all students who perform well and pass the research master program can transfer to a PhD position. However, as the faculties and not TI provide PhD positions, TI cannot guarantee a PhD position for all students.

Students are strongly advised to complete all modules of the program before the end of the second academic year (i.e. in 24 months). Any extension beyond August 31 complicates the matching to PhD employment positions and involves the payment of tuition fees for (part of) the third academic year.

**Skill courses**
The following courses are part of the Research Clinic (which yields 3 ECTS in total) and are mandatory preparatory courses for the thesis writing:

- An academic writing course,
- An academic integrity course,
- A presentation course (which includes a teaching assistant training workshop).
- Workshop on how to come up with a good research idea (first year, block V).

The purpose of the lectures on Academic Integrity is to stimulate students to think about professional behavior in science. The lectures on Academic Presentation and Writing and the research idea workshop provide skills that the students will need in their scientific career to present effectively at conferences and seminars and to write scientific papers to the highest standard.

**Seminars**
Research fellows organize a wide variety of seminar series and conferences. Student participation in seminars is highly recommended. However, no course credits are allocated. Seminar schedules can be found [here](#).
The Academic and Examination Regulations

Plagiarism

Students are strongly advised to carefully study the chapter in the AER that defines plagiarism. Plagiarism is considered as a serious offense. The DGS gives a lecture on ethics and plagiarism on the introduction day (Monday of block 0).

The Examination Board and appeals

The Examination Board serves two research master programs: the TI program and the Business Data Science program. The Examination Board is responsible for the quality of examinations and diplomas. The Examination Board consists of four members, one of each faculty participating in the research master programs and one external member. The responsibilities and tasks of the Examination Board are explained in the Rules and Regulations for the Examination Board (available upon request). The Annual Report of the Examination Board is also available upon request.

Students may contact the Examination Board for the following reasons:

- The Examination Board decides on deviations from the curriculum that may have a bearing on the diploma. Therefore, any requests for items such as replacement of parts of the curriculum through courses provided by third parties and exemptions should be sent to the Examination Board.
- Students who miss an examination due to for example verifiable illness may ask for a retake in the same academic year.

Requests must be addressed to examinationboard@tinbergen.nl. Instructions on how to submit a request to the Examination Board can be found on the Intranet. The Examination Board will decide within three weeks of receiving the request.

The Examination Board may take measures against a student in case of fraud, plagiarism or misbehavior.

An appeal may be lodged against any Examination Board decision and/or against the way in which the result for an examination was reached. A detailed notice of appeal should be submitted to the Examination Appeals Board (COBEX) of the university where the student is enrolled. The procedures of these Appeals Boards need to be followed carefully. Please read the instructions and deadlines on the Intranet. In general, the appeal must be lodged within six weeks after the decision which is appealed has been made.

Educational Board

The Educational Board serves the same two research master programs as the Examination Board.

The Educational Board consists of six members. Three members are from the programs’ teaching staff and/or research fellows; three members are research master students in one of the programs. Student members are nominated by the students after elections and are appointed by the Faculty Board of the university of enrolment. Student members are appointed for two years. Members are
listed on the website. The rules and regulations as well as the annual report of the Educational Board are available on the Intranet.

The Educational Board issues advice, both solicited and unsolicited, to the Directors of Graduate Studies on all matters concerning the educational program, with the objective to maintain or improve the quality of the program. The Educational Board’s advice may concern all aspects of the program including composition of the curriculum, student facilities and teacher quality.

The student members organize an annual comprehensive program evaluation, the outcome of which is discussed in the Educational Board meeting.

Students are free to contact Educational Board members with any concerns they may have about the program.

Student Council

The Student Council is an independent student body that both informs and advises students and organizes regular social events. For composition and agenda see the website.

Facilities

The institute supports students with various facilities, such as office space and reimbursement of travel expenses between Amsterdam and Rotterdam for coursework (see Intranet).

Admission

The TI research master program is a selective program. Selection of students is done in a careful selection process. Admission requirements are listed on the website.

Funding

Tinbergen Institute awards scholarships to selected students based on individual merit. Scholarships and tuition waivers are granted by TI’s Admission Board. Students who accept a TI scholarship or tuition waiver are obliged to sign and thereby accept TI’s scholarship regulations.

For second-year students, additional funding is offered by the institute and the faculties through research and/or teaching assistantships. These jobs offer valuable teaching and research experience. Students are encouraged to check job openings at the three faculties. Open positions are also advertised on the Intranet.

Job market training

Tinbergen Institute supports PhD students in preparing for the international (academic) job market by organizing presentation sessions (weekly lunch seminars and an annual PhD Jamboree), by providing a budget to participate in international job market events (usually the EEA meetings in Europe and the AEA meetings in the US) and by offering mock interview sessions. Requirements and details are announced in the Institute’s Intranet.
The Tinbergen Institute is named after Professor Jan Tinbergen (1903-1994), the Dutch economist who was awarded the first Nobel prize for Economics in 1969.