



# Modulhandbuch für die Masterstudiengänge

- Accounting and Finance
- Data Science in Business and Economics
- Economics
- Economics and Finance
- European Economics
- European Management
- General Management
- International Business
- Management and Economics

WIRTSCHAFTS- UND SOZIALWISSENSCHAFTLICHE FAKULTÄT  
Fachbereich Wirtschaftswissenschaft



# Inhalt

Inhalt.....	1
Einführung.....	2
Studienplan M.Sc. Accounting and Finance .....	4
Studienplan M.Sc. Data Science in Business and Economics.....	11
Curriculum M.Sc. Economics .....	18
Curriculum M.Sc. Economics and Finance .....	29
Curriculum M.Sc. European Economics .....	34
Curriculum M.Sc. European Management .....	42
Studienplan M.Sc. General Management.....	55
Studienplan M.Sc. International Business .....	65
Curriculum M.Sc. Management and Economics.....	78
M.Sc. Quantitative Data Science Methods - Psychometrics, Econometrics and Machine Learning.....	83
Module Catalogue .....	84

# Einführung

## Hinweise

Dieses Modulhandbuch erläutert die Module des Fachbereichs Wirtschaftswissenschaft. Alle inhaltlichen und organisatorischen Angaben der Modulbeschreibungen beruhen auf Angaben der Dozenten. Beachten Sie, dass Änderungen möglich sind.

Im Studienplan für Ihren Studiengang sehen Sie, welche Module Sie jeweils belegen müssen und wählen können. Dort ist auch jeweils die Nummer des Moduls abgedruckt. Das Nummernsystem funktioniert wie folgt:

B	Business Administration / Betriebswirtschaftslehre
DS	Data Science
E	Economics / Volkswirtschaftslehre
L	Lehramt Wirtschaftswissenschaft (B.Ed./M.Ed.)
S	Statistik, Mathematik und Quantitative Methoden
SQ	Kurse im Modul Schlüsselqualifikation
MA	Masterarbeitsmodule
CM	Containermodule (z.B. für Masterseminare)
WE	Veranstaltungen des Weltethosinstituts

Bei der dreistelligen Nummer steht die erste Zahl für das Jahr, in dem Sie das Modul wählen:

1__	Module des ersten Studienjahrs
2__	Module des zweiten Studienjahrs
3__	Module des dritten Studienjahrs
4__	Mastermodule, Vorlesungen und Kolloquien
5__	Mastermodule, Seminare und Kolloquien.

Eine Ausnahme bilden die Kurse des Moduls Schlüsselqualifikation, bei denen die erste Ziffer keine Rückschlüsse auf den Schwierigkeitsgrad zulassen.

Die zweite Stelle der Nummer steht für die jeweilige Abteilung:

B_0_	Lehrstuhl für Finanzierung (Koziol)
B_1_	Lehrstuhl für Bankwirtschaft (Neus, Riepe)
B_2_	Lehrstuhl für Marketing (Papies, Keller, Mayer)
B_3_	Lehrstuhl für Managerial Accounting (Kampkötter)
B_4_	Lehrstuhl für Personal und Organisation/Strategie und Organisation (Pull, Yang)
B_5_	Lehrstuhl für International Business Taxation (Ruf)
B_6_	Lehrstuhl für Financial Institutions (Gehde-Trapp)
B_8_	Lehrstuhl für Internationale Rechnungslegung und Wirtschaftsprüfung (N.N.)
B_9_	Lehrstuhl für International Business (Pudelko)
E_1_	Lehrstuhl für Finanzwissenschaft (Wamser)
E_2_	Lehrstuhl für Internationale Wirtschaftsbeziehungen (Gumpert)
E_3_	Lehrstuhl für Geld und Währung/Makroökonomik (Müller, Manger, Mutschler)
E_4_	Lehrstuhl für Internationale Wirtschaftsbeziehungen und Arbeitsmärkte (Stähler)
E_5_	Lehrstuhl für Wirtschaftstheorie (Stadler)
E_6_	Lehrstuhl für International Economics (Merlo, Knaus)
E_7_	Lehrstuhl für Volkswirtschaftslehre mit Schwerpunkt Makroökonomik (Lütticke)
E_8_	Lehrstuhl für Wirtschaftsgeschichte (Baten)
S_1_	Lehrstuhl für Statistik, Ökonometrie und Empirische Wirtschaftsforschung (Grammig)
S_2_	Lehrstuhl für Statistik und Ökonometrie und Quantitative Methoden (Biewen)
L__	Lehrstuhl für Ökonomische Bildung und Wirtschaftsdidaktik (Brahm)

## **Module**

Unter Modularisierung versteht man die Zusammenfassung von Stoffgebieten zu thematisch und zeitlich abgerundeten, in sich geschlossenen und mit Credit Points versehenen abprüfbaren Einheiten. Module können sich aus verschiedenen Lehr- und Lernformen zusammensetzen und Inhalte eines oder zweier Semester umfassen. Wenn alle zu einem Modul gehörigen Prüfungsleistungen erbracht sind, werden dem Prüfungskonto Credit Points gutgeschrieben und es wird die Note des Moduls berechnet.

## **Credit Points**

Die Credit Points werden nach dem Standard ECTS (European Credit Transfer System = Europäisches System zur Anrechnung von Studienleistungen) vergeben. Pro Studienjahr sollen 60 Credit Points, pro Semester dementsprechend 30 Credit Points erworben werden.

Das Credit Point System dient der Erfassung der von den Studierenden erbrachten Leistungen sowie der Anrechnung von Prüfungsleistungen aus anderen Studiengängen. Auf der Grundlage von erworbenen Credit Points und der dabei erzielten Noten werden die gewichteten Durchschnittsnoten der Module und die Noten der Bachelor- und Master-Prüfung insgesamt berechnet.

## **Studienaufwand**

Jedes Modul ist mit i.d.R. 6 oder 9 Credit Points versehen (in Ausnahmefällen auch mit 3 Credit Points), die dem jeweils erforderlichen Studienaufwand (workload) entsprechen. Ein Credit Point entspricht dabei einem Studienaufwand von 30 Stunden effektiver Studienzeit; dies umfasst Präsenzzeiten, Vor- und Nachbereitung sowie Prüfungsvorbereitung. Ein Studienjahr umfasst 60 Credit Points, was 1800 Arbeitsstunden pro Jahr entspricht. Der Umfang der Module und die zugehörigen Credit Points sind in den Modulbeschreibungen festgelegt. Bei einem erfolgreichen Abschluss eines Moduls werden so viele Credit Points gutgeschrieben, wie für dieses Modul vorgesehen sind.

## **Auslandsaufenthalt**

In jedem der Masterstudiengänge am Fachbereich Wirtschaftswissenschaft lässt sich ein Auslandsaufenthalt von i.d.R. einem Semester an einer Partneruniversität integrieren, teilweise ist dieser sogar verpflichtend vorgesehen. Allerdings ist durch die kurze Studienzeit der Masterstudiengänge prinzipiell ein integrierter Auslandsaufenthalt (wie z.B. in den Doppelmasterstudiengängen angeboten) zu empfehlen um Studienverzögerungen zu vermeiden.

Für die Anrechnung der Studienleistungen aus dem Ausland stellt das Prüfungsamt auf seiner Homepage im Downloadbereich ein Merkblatt zur Verfügung. Eine ausführliche Liste aller Partneruniversitäten der Universität Tübingen sowie der Bewerbungsfristen finden Sie unter [www.uni-tuebingen.de/international/studieren-im-ausland.html](http://www.uni-tuebingen.de/international/studieren-im-ausland.html)

## **Studienplan M.Sc. Accounting and Finance**

Der dreisemestrige M.Sc.-Studiengang Accounting and Finance integriert die beiden Teildisziplinen Rechnungslegung und Finanzwirtschaft in ein kombiniertes Master-Programm, welches den Absolventen/-innen vielfältige Karriereoptionen unter anderem in großen Unternehmen, Versicherungen oder Wirtschaftsprüfungsgesellschaften eröffnet. Weiterhin besteht die Möglichkeit, das Programm als Ausgangspunkt für eine wissenschaftliche Karriere zu nutzen.

### **Qualifikationsziele**

Der Masterstudiengang ist professions- und forschungsorientiert. Absolventinnen und Absolventen des M.Sc. in Accounting and Finance können Methoden und Methodologien der Betriebswirtschaftslehre, insbesondere der Teildisziplinen Accounting und Finance erläutern. Sie sind in der Lage, diese Kenntnisse auf Fragestellungen in verschiedenen betriebs- und wirtschaftswissenschaftlichen Bereichen zu übertragen und sowohl in theoretisch-wissenschaftlichen als auch in praktisch-beruflichen Kontexten zur Problemlösung anzuwenden. Sie können darüber hinaus neuartige und offene wissenschaftliche und praktische Sachverhalte und Problemstellungen aus einer wirtschaftswissenschaftlichen Perspektive selbständig, umfassend und systematisch zu bewerten. Dabei gelingt es ihnen, ihre im Studium erworbenen Fachkenntnisse zu neuen Herangehensweisen zu verknüpfen.

Im Bereich Accounting sind die Absolvent/innen nach Abschluss des Studiums unter anderem in der Lage, die grundlegenden Theorien und Konzepte des Controllings bzw. der Kostenanalyse zu bewerten und Fallbeispiele aus der Unternehmenspraxis zu analysieren. Weiterhin können sie modelltheoretische Ansätze aus dem vielschichtigen Forschungsfeld der Corporate Governance hinterfragen und diesbezüglich einschlägige empirische Befunde beurteilen. Auch vermögen die Absolventen/-innen die institutionellen Rahmenbedingungen der Wirtschaftsprüfung einzuordnen und können den Prozess der Abschlussprüfung beurteilen.

Im Bereich Finanzwirtschaft können die Absolvent/innen die optimale Kapitalstruktur eines Unternehmens analysieren und die grundlegenden Konzepte der Unternehmensfinanzierung beurteilen. Weiterhin können sie verschiedene Lösungsansätze zur Optimierung bankwirtschaftlicher Entscheidungsprobleme entwickeln und können die für die verschiedenen Stakeholder eines Unternehmens relevanten Bestandteile einer Unternehmensbilanz einordnen.

Absolventinnen und Absolventen sind folglich in die Lage, die aktuelle Forschung in Accounting and Finance zu bewerten sowie eigene wissenschaftliche Projekte zu entwickeln und sich so in den Fachdiskurs einzubringen.

Aufgrund der vielfältigen Wahlmöglichkeiten ist die Aufstellung der an dieser Stelle aufgeführten Qualifikationsziele nicht als abschließend zu betrachten und kann um die aus der individuell erfolgten Modulwahl im Vertiefungs- und Wahlbereich weiteren erlangten spezifischen fachlichen Kompetenzen erweitert werden, die den jeweiligen Modulbeschreibungen entnommen werden können.

### **Auslandsaufenthalte**

Im Gegensatz zu den vom Fachbereich Wirtschaftswissenschaft angebotenen Doppelmasterstudiengängen (M.Sc. European Management, M.Sc. European Economics, M.Sc. International Economics, M.Sc. Economics) sowie dem M.Sc. in International Business ist im M.Sc. in Accounting and Finance kein integrierter Auslandsaufenthalt vorgesehen. Sollte ein Auslandsaufenthalt im M.Sc. in Accounting and Finance angestrebt werden, so ist hierfür das 3. Semester zu empfehlen. Abhängig von der individuellen Studienplanung und dem Studienangebot im Ausland können Studienverzögerungen dabei nicht ausgeschlossen werden.

### **Fachliche und sprachliche Voraussetzungen**

Voraussetzung für die Aufnahme des Studiums im M.Sc. Accounting and Finance ist ein Bachelorabschluss in BWL oder VWL, vorzugsweise mit einem Umfang von 210 ECTS-Punkten. Bei Vorliegen eines Bachelorabschlusses mit 180 ECTS-Punkte verlängert sich die Regelstudienzeit auf vier Semester, da Leistungen im Um-

fang von 30 zusätzlichen ECTS-Punkten im Laufe des Masterstudiums erbracht werden müssen, um den Abschluss zu erlangen. Die zusätzlich belegten Module fließen jedoch nicht in die Endnote des M.Sc.-Abschlusses ein.

Vorausgesetzt werden Kenntnisse der grundlegenden Begrifflichkeiten, Theorien und Modelle der Wirtschaftswissenschaft mit besonderem Bezug auf die planerischen und organisatorischen Prozesse innerhalb eines einzelnen Betriebs. Hierbei wird insbesondere Wert auf Vorkenntnisse im internen und externen Rechnungswesen, der Finanzierungs- und Investitionstheorie sowie in Mathematik, Statistik und Ökonometrie Wert gelegt. Die Fähigkeit, verschiedene Teilbereiche der Betriebswirtschaftslehre gegeneinander abzugrenzen wird vorausgesetzt.

Die Studien- und Prüfungssprachen im Masterstudiengang Accounting and Finance sind Englisch und Deutsch. Lehrveranstaltungen und Prüfungen finden häufig in englischer Sprache statt, gleichermaßen ist einschlägige Fachliteratur oft in englischer Sprache verfasst. Es wird vorausgesetzt, dass die Studierenden über sehr gute deutsche Sprachkenntnisse (etwa C1 nach dem Europäischen Referenzrahmen) sowie sehr gute englische Sprachkenntnisse (etwa B2 nach dem Europäischen Referenzrahmen) verfügen. Beratung insbesondere zu den deutschen Sprachkenntnissen für internationale Bewerber erhalten Sie bei der Zulassungsstelle für internationale Studierende.

### **Studienverlauf**

Der dreisemestrige Masterstudiengang in Accounting and Finance ist in drei Bereiche unterteilt: Den Grundlagenbereich, den Vertiefungsbereich und den Wahlbereich. Zusätzlich belegen Studierende noch ein Modul „Advanced Topics in Accounting and Finance“ und fertigen eine Masterarbeit an. Insgesamt müssen in diesem Studiengang 90 ECTS-Punkte erworben werden, 24 davon entfallen auf die Masterarbeit.

Im Grundlagenbereich Accounting und im Grundlagenbereich Finance müssen Studierende jeweils 9 ECTS-Punkte erwerben.

Im Vertiefungsbereich müssen Module im Umfang von mindestens 24 und maximal 33 ECTS-Punkten belegt werden.

Das Modul „Advanced Topics in Accounting and Finance“ dient der Vorbereitung der Masterarbeit und umfasst 9 ECTS-Punkte.

Im Wahlbereich müssen Module im Umfang von mindestens 6 und maximal 15 ECTS-Punkten belegt werden. Insgesamt müssen im Vertiefungs- und Wahlbereich 39 ECTS-Punkte erworben werden.

Voraussetzung für die Zulassung zur Masterarbeit ist der Erwerb von mindestens 30 ECTS-Punkten im Rahmen des Grundlagen- und Vertiefungsbereichs. Abhängig davon, an welchem Lehrstuhl die Masterarbeit angefertigt wird, kann der Besuch eines Methodenseminars vorgeschrieben sein (siehe Homepage der einzelnen Lehrstühle). Dieses Seminar muss unter Umständen, beispielsweise bei einem Auslandsaufenthalt im zweiten Studienjahr, bereits im ersten Studienjahr belegt werden.

### **PhD-Orientierung**

Der Studiengang M.Sc. in Accounting and Finance kann auch in einer Variante mit expliziter PhD-Orientierung absolviert werden. Voraussetzung für die Eintragung des Zusatzes „mit PhD-Orientierung“ auf dem Zeugnis ist, dass mindestens insgesamt 18 ECTS-Punkte der außerhalb des Grundlagenbereichs erworbenen ECTS-Punkte aus Modulen stammen müssen, die im Modulhandbuch explizit als PhD-orientiert gekennzeichnet sind.

**Studienverlaufsplan M.Sc. Accounting and Finance**

1.-3. Semester						
Grundlagenbereich Accounting	9	Vertiefungsbereich <sup>1)</sup>	24-33	insg. 39	Advanced Topics in Accounting and Finance <sup>3)</sup>	9
Grundlagenbereich Finance	9				Master Thesis in Accounting and Finance <sup>4)</sup>	24
		Wahlbereich <sup>2)</sup>	6-15			

1) Vertiefungsbereich: Sie müssen Module im Umfang von 24 - 33 ECTS-Punkten belegen. Insgesamt sind im Vertiefungs- und Wahlbereich 39 ECTS-Punkte zu erwerben.

2) Wahlbereich: Sie können Module im Umfang von 6 - 15 ECTS-Punkten belegen. Insgesamt sind im Vertiefungs- und Wahlbereich 39 ECTS-Punkte zu erwerben.

3) Das Modul "Advanced Topics in Accounting and Finance" dient der Vorbereitung der Masterarbeit.

4) Die Masterarbeit kann bei individueller Belegung bereits im 2. Semester geschrieben werden. Bei Interesse empfehlen wir zur Abstimmung ein persönliches Gespräch bei der Studienfachberatung und Rücksprache mit dem betreuenden Lehrstuhl.

Für Studierende, die 30 zusätzliche ECTS-Punkte absolvieren müssen, da sie einen B.Sc.-Abschluss mit 180 ECTS-Credits absolviert haben, verlängert sich das Studium um ein Semester. Die zusätzlichen 30 ECTS-Punkte können in allen M.Sc.-Modulen sowie in den Modulen des 3. Bachelorjahres erworben werden, sofern diese Module (oder äquivalente Module oder Veranstaltungen) noch nicht im Rahmen des B.Sc.-Studiums belegt worden sind.

Ein Auslandsstudium kann im dritten Fachsemester absolviert werden, kann jedoch zu einer Verlängerung der Studienzeit führen. Bitte lassen Sie sich hierzu unbedingt beraten und beachten Sie die Bewerbungsfristen beim Dezernat für internationale Angelegenheiten für die Austauschprogramme.

**Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in Accounting and Finance daher wie folgt aussehen:**

1. Semester		2. Semester		3. Semester	
Grundlagenbereich Accounting <i>B430B Managerial Accounting and Cost Analysis</i>	9	Vertiefungsbereich B411 Theorie der Bank	9	Vertiefungsbereich B451 Unternehmensbesteuerung	6
Grundlagenbereich Finance <i>B400 Advanced Corporate Finance</i>	9	Vertiefungsbereich B457 M&A Tax	6	MA5_01 Master Thesis in Accounting and Finance	24
Vertiefungsbereich B412 Bank Management	6	CM5_01 Advanced Topics in Accounting and Finance	9		
Vertiefungsbereich B434 Managerial Accounting: Control Systems, Top Executives, and Ethics	6	Wahlbereich B432A Organizational Economics	6		
<b>30</b>		<b>30</b>		<b>30</b>	

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

Studienplan M.Sc. Accounting and Finance

<i>Nummer</i>	<i>Modultitel</i>	<i>Empf. FS</i>	<i>ECTS- Punkte</i>	<i>WS/SS</i>
<b>MSC-AF-GMAcc-23 Grundlagenbereich Accounting (9 ECTS-Punkte, Wahlpflicht)</b>				
B430B	Managerial Accounting and Cost Analysis	1	9	WS
B450A	Taxes and Business Strategy	2	9	SS
B480B	Unternehmenspublizität und Märkte B	1	9	WS
<b>MSC-AF-GMFin-23 Grundlagenbereich Finance (9 ECTS-Punkte, Wahlpflicht)</b>				
B400	Advanced Corporate Finance	1	9	WS
B401	Continuous-time Derivatives Pricing	2	9	SS
B411	Theorie der Bank	2	9	SS
B413	Empirical Banking	2	9	SS
<b>MSC-AF-VB-23 Vertiefungsbereich (24 - 33 ECTS-Punkte, Wahlpflicht)</b>				
Alle Module des Grundlagenbereichs sind auch im Vertiefungsbereich anrechenbar.				
B400	Advanced Corporate Finance	1-3	9	WS
B401	Continuous-time Derivatives Pricing	1-3	9	SS
B404	Modern Issues in Finance 1	1-3	6	WS, SS
B405	Modern Issues in Finance 2	1-3	6	WS, SS
B411	Theorie der Bank	1-3	9	SS
B412	Bank Management	1-3	6	WS
B413	Empirical Banking	1-3	9	SS
B414A	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	6	SS
B414B	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	12	SS
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B432A	Organizational Economics	1-3	6	SS
B432B	Organizational Economics	1-3	9	SS
B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-3	6	WS
B450A	Taxes and Business Strategy	1-3	9	SS
B451	Unternehmensbesteuerung	1-3	9	WS
B452	Internationale Unternehmensbesteuerung	1-3	6	SS
B455	Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer	1-3	9	WS
B457	M&A Tax	1-3	6	SS
B463B	Businesspläne für Startups	1-3	9	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
B480A	Unternehmenspublizität und Märkte A	1-3	6	WS



## Studienplan M.Sc. Accounting and Finance

B480B	Unternehmenspublizität und Märkte B	1-3	9	WS
B481A	Sustainable Governance A	1-3	6	SS
B481B	Sustainable Governance B	1-3	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS
B483	Empirical Accounting Research	1-3	6	WS oder SS
B512	CFA Colloquium	1-3	6	WS
S411	Advanced Time Series Analysis	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S416	Topics in Financial Econometrics	1-3	6	WS or SS
S420	Statistics of Financial Markets	1-3	9	WS

---

### **MSC-AF-AT-23 Advanced Topics in Accounting and Finance (9 ECTS-Punkte, Pflicht)**

CM5_01	Advanced Topics in Accounting and Finance	2-3	9	WS, SS
--------	---	-----	---	--------

---

### **MSC-AF-WB-23 Wahlbereich (6 - 15 ECTS-Punkte, Wahlpflicht)**

Alle Module des Grundlagen- und des Vertiefungsbereichs sind auch im Wahlbereich anrechenbar.

In diesem Bereich sind über die unten gelisteten Module hinaus auch Module anderer Institutionen wählbar. Diese können Sie im Modulhandbuch für außerfachliche Veranstaltungen unter <https://uni-tuebingen.de/en/31075> finden.

B400	Advanced Corporate Finance	1-3	9	WS
B401	Continuous-time Derivatives Pricing	1-3	9	SS
B402	Financial Statement Analysis	1-3	6	WS
B403	Topics in International Financial Reporting and Risk Management	1-3	6	SS
B404	Modern Issues in Finance 1	1-3	6	WS, SS
B405	Modern Issues in Finance 2	1-3	6	WS, SS
B411	Theorie der Bank	1-3	9	SS
B412	Bank Management	1-3	6	WS
B413	Empirical Banking	1-3	9	SS
B414A	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	6	SS
B414B	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	12	SS
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B421	eBusiness	1-3	6	SS
B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B432A	Organizational Economics	1-3	6	SS
B432B	Organizational Economics	1-3	9	SS
B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-3	6	WS

## Studienplan M.Sc. Accounting and Finance

B440	Personnel Economics	1-3	9	WS
B450A	Taxes and Business Strategy	1-3	9	SS
B451	Unternehmensbesteuerung	1-3	9	WS
B452	Internationale Unternehmensbesteuerung	1-3	6	SS
B455	Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer	1-3	9	WS
B457	M&A Tax	1-3	6	SS
B463B	Businesspläne für Startups	1-3	9	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B465	Specialization in Economic Research	1-3	6	WS or SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
B480A	Unternehmenspublizität und Märkte A	1-3	6	WS
B480B	Unternehmenspublizität und Märkte B	1-3	9	WS
B481A	Sustainable Governance A	1-3	6	SS
B481B	Sustainable Governance B	1-3	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS
B483	Empirical Accounting Research	1-3	6	WS oder SS
B512	CFA Colloquium	1-3	6	WS
DS401	Data Science Techniques 1	1-3	9	WS, SS
DS402	Data Science Techniques 2	1-3	6	WS, SS
DS403	Data Science Techniques 3	1-3	6	WS, SS
DS404	Data Science Techniques 4	1-3	6	WS, SS
DS405	Data Science Techniques 5	1-3	6	WS, SS
DS406	Data Science Techniques 6	1-3	6	WS, SS
DS407	Data Science Techniques 7	1-3	6	WS, SS
DS408	Data Science Techniques 8	1-3	6	WS, SS
E410	Fiscal Federalism	1-3	6	WS
E411	Economics of Taxation	1-3	9	SS
E431	Open Economy Macroeconomics	1-3	6	WS
E433	Advanced Macroeconomics I	1-3	9	WS
E434	Advanced Macroeconomics II	1-3	9	SS
E450A	Game Theory and Industrial Organization	1-3	6	WS
E450B	Game Theory and Industrial Organization	1-3	9	WS
E456	Behavioral Economics	1-3	6	SS
S411	Advanced Time Series Analysis	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S414	Advanced Mathematical Methods	1-3	3	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S416	Topics in Financial Econometrics	1-3	6	WS or SS
S420	Statistics of Financial Markets	1-3	9	WS
S422	Advanced Microeconometrics	1-3	9	SS
WE4_01	Introduction to Business Ethics	1-3	6	WS, SS

**MSC-AF-MT-23 Master Thesis in Accounting and Finance (24 ECTS-Punkte, Pflicht)**

---

MA5_01	Masterarbeit in Accounting and Finance	3	24	WS, SS
--------	--	---	----	--------

## Studienplan M.Sc. Data Science in Business and Economics

Der viersemestrige M.Sc.-Studiengang Data Science in Business and Economics integriert die Teildisziplinen Wirtschaftswissenschaft, Ökonometrie und Informatik in ein kombiniertes Master-Programm, welches den Absolventen/-innen vielfältige Karriereoptionen unter anderem in multinationalen Unternehmen, Beratungen sowie analytisch ausgerichteten Unternehmen bzw. öffentlichen Einrichtungen eröffnet. Data Scientists können auch ihr eigenes Data Science Unternehmen gründen und so neue Märkte und Möglichkeiten anhand von Datenanalysen erschließen. Weiterhin besteht die Möglichkeit, das Programm als Ausgangspunkt für eine wissenschaftliche Karriere zu nutzen.

### Qualifikationsziele

Der Masterstudiengang ist professions- und forschungsorientiert. Absolventinnen und Absolventen des *M.Sc. in Data Science in Business and Economics* identifizieren, analysieren und interpretieren umfangreiche, komplexe und unstrukturierte Datensätze. Sie sind in der Lage, diese Kenntnisse auf Fragestellungen auf verschiedene wirtschaftswissenschaftliche Fragestellungen zu übertragen, die sich insbesondere aus der Verfügbarkeit umfangreicher Datensätze im Bereich digitalisierter Wertschöpfungsprozesse ergeben. Diese Kenntnisse können sie sowohl in praktisch-beruflichen sowie in theoretisch-wissenschaftlichen Kontexten zur Problemlösung anwenden.

Die Absolventen/-innen sind in der Lage, gefundene Lösungen zu visualisieren und an relevante Stakeholder zu kommunizieren. Sie können den daten-generierenden Prozess, der den genutzten Datensätzen zugrunde liegt, hinterfragen und Lösungen für komplexe Herausforderungen entwickeln, die sich beim Arbeiten mit großen Datensätzen ergeben. Sie führen moderne und fortgeschrittene Prognoseverfahren durch, sowohl aus dem Bereich traditioneller Statistik als auch dem Maschinellen Lernen. Zudem können sie diekausale Inferenz mit experimentellen und nicht-experimentellen Daten beurteilen. Die Absolventen/-innen können mit geographischen und offenen Daten umgehen. Sie wenden grundlegende beschreibende Techniken erfolgreich an, evaluieren Ergebnisse von Datenanalysen und erstellen überzeugende Präsentationen. Sie können einschätzen, wie diese fortgeschrittenen Fähigkeiten Wettbewerbsvorteile in realen betrieblichen Anwendungen bringen können.

Bei der Analyse eigener Projekte können die Absolventen/-innen die Anforderungen und können diese künftigen Kolleginnen und Kollegen und anderen Anspruchsgruppen illustrieren. Sie sind in der Lage, Daten auf mögliche Verknüpfungen zu prüfen und Lösungsansätze für auftauchende Herausforderungen abzuleiten. Absolventen/-innen können weiterhin gefundene Lösungen eines Projekts auf andere Anwendungsfälle übertragen. Beispielsweise begründen sie die besonderen Anforderungen an eine erfolgreiche Durchführung moderner Marketingaktivitäten und können solche Aktivitäten entwerfen.

Das Programm verfolgt das Ziel, dass Absolventen/-innen die theoretischen Grundlagen für Datenmanagement und Datenanalyse erörtern und diese anwenden können. Hierzu werden ein breites Kursangebot ebenso wie datenwissenschaftliche Projekte zur Anwendung des erworbenen Wissens in der Praxis angeboten. Aufbauend auf diesen Kompetenzen sind die Studierenden in der Lage, verschiedene mathematische und informatische Modellierungstechniken systematisch zu kombinieren und Softwaretechniken zur Auswertung großer Datenmengen effektiv einzusetzen. Studierende können moderne Werkzeuge der Datenanalyse anwenden und neuartige Werkzeuge für die Zukunft entwickeln. Sie sind ebenfalls fähig, neuartige Fragestellungen und Datensätze mit Ansätzen, die Elemente der Informatik und der Ökonometrie beinhalten, selbstständig, umfassend und systematisch zu analysieren und diese Untersuchungen vor dem Hintergrund typischer wirtschaftswissenschaftlicher Fragestellungen zu planen und umzusetzen. Beispielsweise können Studierende mikroökonomische Schätzverfahren zur Beurteilung der Folgen der Steuerpolitik implementieren.

Absolventen/-innen sind in der Lage, sich nicht nur konstruktiv mit der aktuellen Entwicklungen im Bereich Data Science auseinanderzusetzen, sondern darüberhinausgehend auch selbstständig eigene praxisorientierte und wissenschaftliche Projekte zu entwerfen und sich so in den Fachdiskurs einzubringen. Sie können die Grenzen von Data Science in Bezug auf Gesetze, Vorschriften und ethische Aspekte beurteilen.

## **Auslandsaufenthalte**

Im Gegensatz zu den vom Fachbereich Wirtschaftswissenschaft angebotenen Doppelmasterstudiengängen (M.Sc. European Management, M.Sc. European Economics, M.Sc. International Economics, M.Sc. Economics) sowie dem M.Sc. in International Business ist im M.Sc. in Data Science in Business and Economics kein integrierter Auslandsaufenthalt vorgesehen. Sollte ein Auslandsaufenthalt im M.Sc. in Data Science in Business and Economics angestrebt werden, so ist hierfür das 2. Studienjahr zu empfehlen. In Abhängigkeit von der individuellen Studienplanung und dem Studienangebot im Ausland können Studienverzögerungen nicht ausgeschlossen werden.

## **Fachliche und sprachliche Voraussetzungen**

Voraussetzung für die Aufnahme des Studiums im M.Sc. Data Science in Business and Economics ist ein Bachelorabschluss Wirtschaftswissenschaft mit fundierten ökonomischen Kenntnissen und nachgewiesener Erfahrung in Programmierung statistischer Software.

Kenntnisse der grundlegenden Begrifflichkeiten, Theorien und Modelle der Wirtschaftswissenschaft mit besonderem Bezug auf angewandte empirische Methoden werden vorausgesetzt. Zudem wird insbesondere Wert auf Vorkenntnisse in Mathematik, Statistik und Ökonometrie gelegt. Die Fähigkeit, verschiedene Teilbereiche der Wirtschaftswissenschaft gegeneinander abzugrenzen wird vorausgesetzt.

Die Studien- und Prüfungssprachen im Masterstudiengang Data Science in Business and Economics sind Englisch und Deutsch. Lehrveranstaltungen und Prüfungen finden häufig in englischer Sprache statt, gleichermaßen ist einschlägige Fachliteratur oft in englischer Sprache verfasst. Es wird vorausgesetzt, dass die Studierenden über sehr gute deutsche Sprachkenntnisse (etwa C1 nach dem Europäischen Referenzrahmen) sowie sehr gute englische Sprachkenntnisse (etwa B2 nach dem Europäischen Referenzrahmen) verfügen. Beratung insbesondere zu den deutschen Sprachkenntnissen für internationale Bewerber erhalten Studierende bei der Zulassungsstelle für internationale Studierende.

## **Studienverlauf**

Der viersemestrige Masterstudiengang in Data Science in Business and Economics ist in drei Bereiche unterteilt: Den Grundlagenbereich (Core Studies), den Vertiefungsbereich (Specialization Studies) und den Wahlbereich (Free Elective Studies). Zusätzlich belegen Studierende noch die Module „Data Science Project“ und „Advanced Topics in Data Science in Business and Economics“. Insgesamt müssen in diesem Studiengang 120 ECTS-Punkte erworben werden, 30 davon entfallen auf die Masterarbeit.

Im Grundlagenbereich Schwerpunkt Econometrics (Core Studies Focus Econometrics), im Grundlagenbereich Schwerpunkt Data Science Techniques (Core Studies Focus Data Science Techniques) und im Grundlagenbereich Schwerpunkt Business and Economics (Core Studies Focus Business and Economics) müssen Studierende jeweils 9 ECTS-Punkte erwerben.

Im Vertiefungs- und Wahlbereich müssen Module im Umfang von 42 ECTS-Punkten belegt werden, davon können bis zu 18 ECTS-Credits auf einen Wahlbereich entfallen. Wenn der Vertiefungsbereich Schwerpunkt Econometrics oder der Wahlbereich gewählt werden, müssen im jeweiligen Bereich mindestens 6 ECTS-Punkten belegt werden.

Das Modul „Data Science Project“ dient der umfassenden Umsetzung, Verknüpfung und Integration der in den Grundlagen, Vertiefungs- und Wahlbereichen erlernten Fähigkeiten und umfasst 12 ECTS-Punkte. Das Modul „Advanced Topics in Data Science in Business and Economics“ dient der Vorbereitung auf die Anfertigung der Masterarbeit und umfasst 9 ECTS-Credits.

Voraussetzung für die Zulassung zur Masterarbeit ist der Erwerb von mindestens 30 ECTS-Punkten im Rahmen des Grundlagen- und Vertiefungsbereichs. Abhängig davon, an welchem Lehrstuhl die Masterarbeit angefertigt wird, kann der Besuch eines Methodenseminars vorgeschrieben sein (siehe Homepage der einzelnen Lehrstühle). Dieses Seminar muss unter Umständen, beispielsweise bei einem Auslandsaufenthalt im zweiten Studienjahr, bereits im ersten Studienjahr belegt werden.

### **PhD-Orientierung**

Der Studiengang M.Sc. in Data Science in Business and Economics kann auch in einer Variante mit expliziter PhD-Orientierung absolviert werden. Voraussetzung für die Eintragung des Zusatzes „mit PhD-Orientierung“ auf dem Zeugnis ist, dass mindestens insgesamt 27 ECTS-Punkte der außerhalb des Grundlagenbereichs erworbenen ECTS-Punkte aus Modulen stammen müssen, die im Modulhandbuch explizit als PhD-orientiert gekennzeichnet sind.

## Studienverlaufsplan M.Sc. Data Science in Business and Economics

1. - 4. Semester								
Grundlagenbereich Schwerpunkt Ökonometrie	9	Vertiefungsbereich Schwerpunkt Ökonometrie	0/6-24	24-42 <sup>1)</sup>	Advanced Topics in Data Science in Business and Economics <sup>2)</sup>	9	Data Science Project	12
Grundlagenbereich Schwerpunkt Data Science Techniques	9	Vertiefungsbereich Schwerpunkt Data Science Techniques	12-24		Wahlbereich	0/6-18 <sup>1)</sup>	Master Thesis in Data Science in Business and Economics <sup>3)</sup>	30
Grundlagenbereich Schwerpunkt Business and Economics	9	Vertiefungsbereich Schwerpunkt Business and Economics	6-24					

1) Im Vertiefungs- und Wahlbereich müssen Studierende Module im Umfang von insgesamt 42 ECTS-Credits absolvieren. Im Vertiefungsbereich Schwerpunkt Data Science Techniques müssen Studierende Module im Umfang von mindestens 12 ECTS-Credits absolvieren und ein Modul mit einem Umfang von mindestens 6 ECTS-Credits muss im Vertiefungsbereich Schwerpunkt Business and Economics gewählt werden. Wenn Studierende den Vertiefungsbereich Schwerpunkt Ökonometrie oder den Wahlbereich wählen, müssen sie im jeweiligen Bereich mindestens 6 ECTS-Credits belegen.

2) Das Modul "Advanced Topics in Data Science in Business and Economics" bereitet die Studierenden auf ihre Masterarbeit vor.

3) Das Modul "Master Thesis in Data Science in Business and Economics" kann bei individueller Belegung bereits im 2. Semester geschrieben werden. Bei Interesse empfehlen wir zur Abstimmung ein persönliches Gespräch bei der Studienfachberatung und Rücksprache mit dem betreuenden Lehrstuhl.

Ein Auslandsstudium kann im dritten und vierten Semester absolviert werden, kann jedoch zu einer Verlängerung der Studienzzeit führen. Bitte lassen Sie sich hierzu unbedingt beraten und beachten Sie die Bewerbungsfristen beim Dezernat für internationale Angelegenheiten für die Austauschprogramme.

### Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in Data Science in Business and Economics daher wie folgt aussehen:

1. Semester	2. Semester	3. Semester	4. Semester
Grundlagenbereich Schwerpunkt Ökonometrie S411 Advanced Time Series Analysis	Vertiefungsbereich Schwerpunkt Business and Economics B421 eBusiness	Vertiefungsbereich Schwerpunkt Business and Economics B440 Personnel Economics	MA5_10 Master Thesis in Data Science in Business and Economics
Grundlagenbereich Schwerpunkt Data Science Techniques DS400 Data Science Project Management	Vertiefungsbereich Schwerpunkt Data Science Techniques DS401 Data Science Techniques 1	CM5_10 Advanced Topics in Data Science in Business and Economics	
Grundlagenbereich Schwerpunkt Business and Economics B420 Marketing-Mix-Management	Vertiefungsbereich Schwerpunkt Ökonometrie S412 Empirical Asset Pricing	DS500 Data Science Project	
Vertiefungsbereich Schwerpunkt Ökonometrie S414 Advanced Mathematical Methods	Vertiefungsbereich Schwerpunkt Data Science Techniques DS402 Data Science Techniques 2		

Dies ist eine von zahlreichen Möglichkeiten, Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

<i>Nummer</i>		<i>Em</i>	<i>ECTS-</i>	<i>WS/SS</i>
		<i>pf.</i>	<i>Punkte</i>	
		<i>FS.</i>		
<b>MSC-DS-GBEmet-23 Grundlagenbereich Schwerpunkt Econometrics (9 ECTS-Punkte, Wahlpflicht)</b>				
S411	Advanced Time Series Analysis	1	9	WS
S422	Advanced Microeconometrics	2	9	SS
<b>MSC-DS-GBDST-23 Grundlagenbereich Schwerpunkt Data Science Techniques (9 ECTS-Punkte, Pflicht)</b>				
DS400	Data Science Project Management	1	9	WS
<b>MSC-DS-GBB&amp;E-23 Grundlagenbereich Schwerpunkt Business and Economics (9 ECTS-Punkte, Wahlpflicht)</b>				
B400	Advanced Corporate Finance	1	9	WS
B401	Continuous-time Derivatives Pricing	2	9	SS
B411	Theorie der Bank	2	9	SS
B413	Empirical Banking	2	9	SS
B420	Marketing-Mix Management	1	9	WS
B430B	Managerial Accounting and Cost Analysis	1	9	WS
B440	Personnel Economics	1	9	WS
B450A	Taxes and Business Strategy	2	9	SS
B480B	Unternehmenspublizität und Märkte B	1	9	WS
B490	Managing Across Cultures	2	9	SS
E424	Advanced Microeconomics I	1	9	WS
E433	Advanced Macroeconomics I	1	9	WS
E450B	Game Theory and Industrial Organization	1	9	WS
<b>MSC-DS-VBEmet-23 Vertiefungsbereich Schwerpunkt Econometrics (0/6 - 24 ECTS-Punkte, Wahl)</b>				
S411	Advanced Time Series Analysis	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S414	Advanced Mathematical Methods	1-3	3	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S420	Statistics of Financial Markets	1-3	9	WS
S422	Advanced Microeconometrics	1-3	9	SS
E463	Causal Machine Learning	1-3	9	WS
E464	Causal Inference	1-3	6	SS
<b>MSC-DS-VBDST-23 Vertiefungsbereich Schwerpunkt Data Science Techniques (12 - 24 ECTS-Punkte, Wahlpflicht)</b>				
DS401	Data Science Techniques 1	1-3	9	WS, SS
DS402	Data Science Techniques 2	1-3	6	WS, SS
DS403	Data Science Techniques 3	1-3	6	WS, SS
DS404	Data Science Techniques 4	1-3	6	WS, SS



Curriculum M.Sc. Data Science in Business and Economics

DS405	Data Science Techniques 5	1-3	6	WS, SS
DS406	Data Science Techniques 6	1-3	6	WS, SS
DS407	Data Science Techniques 7	1-3	6	WS, SS
DS408	Data Science Techniques 8	1-3	6	WS, SS
E463	Causal Machine Learning	1-3	9	WS
E464	Causal Inference	1-3	6	SS
S415	Machine Learning in Econometrics	1-3	6	SS

**MSC-DS-VBB&E-23 Vertiefungsbereich Schwerpunkt Business and Economics (6 - 24 ECTS-Punkte, Wahlpflicht)**

B401	Continuous-time Derivatives Pricing	1-3	9	SS
B404	Modern Issues in Finance 1	1-2	6	WS, SS
B405	Modern Issues in Finance 2	1-2	6	WS, SS
B413	Empirical Banking	1-3	9	SS
B420	Marketing-Mix Management	1-3	9	WS
B421	eBusiness	1-3	6	SS
B425	Data Science and Marketing 1	1-3	6	WS, SS
B426	Data Science and Marketing 2	1-3	6	WS, SS
B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B440	Personnel Economics	1-3	9	WS
B460	Sustainable Strategy	1-3	6	WS
B461	Empirical Studies in Sustainable Strategy	1-3	6	WS
B465	Specialization in Economic Research	1-3	6	WS or SS
B480A	Unternehmenspublizität und Märkte A	1-3	6	WS
B480B	Unternehmenspublizität und Märkte B	1-3	9	WS
B481A	Sustainable Governance A	1-3	6	SS
B481B	Sustainable Governance B	1-3	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS
B483	Empirical Accounting Research	1-3	6	WS oder SS
E411	Economics of Taxation	1-3	9	SS
E436	Quantitative Macroeconomics	1-3	9	WS
E471	Empirical Topics in International Trade	1-3	9	WS
E463	Causal Machine Learning	1-3	9	WS
E464	Causal Inference	1-3	6	SS
E480	Empirical Studies on Migration, Trade and Growth in the Long Run	1-3	9	WS
E580	Topics in International Economic History I	1-3	9	WS, SS
E581	Topics in International Economic History II	1-3	9	WS, SS

**MSC-DS-AT-23 Advanced Topics in Data Science in Business and Economics (9 ECTS-Credits, Pflicht)**

CM5_10	Advanced Topics in Data Science in Business and Economics	2-3	9	WS,SS
--------	---	-----	---	-------

**MSC-DS-DSP-23 Data Science Project (12 ECTS-Punkte, Pflicht)**

DS500	Data Science Project	3	12	WS
-------	----------------------	---	----	----

**MSC-FES-23 Freier Wahlbereich (0-18 ECTS-Punkte, Wahl)**

In diesem Bereich sind alle Mastermodule des Fachbereichs Wirtschaftswissenschaft wählbar, ausgenommen davon sind die Module Advanced Topics. Zusätzlich können ausgewählte Module anderer Institutionen gemäß dem Modulhandbuch für außerfachliche Veranstaltungen unter <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> finden.		1-3	3/6/9/ other, de- pending on mod- ule	WS, SS
---	--	-----	---	--------

**MSC-DS-MT-23 Master Thesis in Data Science in Business and Economics (30 ECTS-Punkte, Pflicht)**

MA5_10	Masterarbeit in Data Science in Business and Economics	4	30	WS, SS
--------	--	---	----	--------

## Curriculum M.Sc. Economics

The M.Sc. program in Economics is oriented towards students who are planning to pursue a professional or an academic career. The program combines the basic components of applied economics with a wide range of specialization possibilities within the different research areas of economic science. Having completed the program, graduates have several career options in internationally operating firms, insurance companies or research institutes as well as public sector organizations. Furthermore, the program can serve as a starting point for an academic career.

### Objectives

Graduates of the M.Sc. in Economics are able to explain and apply modern methods and methodologies of economics. They can use this knowledge in other fields of study and are thus able to develop solutions to problems in various economic fields both in research-oriented and professional contexts.

Students can understand and critically analyze journal articles in macro- and microeconomics, econometrics and other advanced fields of economics. They consolidate in-depth knowledge of recent theories in economics and are able to utilize this to evaluate and interpret current economic developments.

Students can select one out of three tracks and choose from a wide field of advanced modules on Economics, Econometrics and Finance (EEF) in order to further enhance their knowledge and specific skills in their chosen area of interest. Consequently, the qualification of each student is also partly dependent on his/her choice of modules in these tracks. The following overview shows an exemplary qualification.

Graduates who chose the track *international economics* are particularly competent in analyzing and applying theories and empirical methods of international macroeconomics and international trade. They are able to contextualize and assess specific developments in an international environment such as the implications of taxation for multinational enterprises.

Graduates who chose the track *economic history and development* apply econometric methods and theoretical concepts to analyze and explain developments in European economic history, globalization, and the behavioral aspects of financial markets in the long-term. Moreover, they can assess the role of development aid, human capital, and general development trends in poor countries over the long run.

Graduates who chose the track *empirical methods and data* can perform complex econometric analyses. They are able to employ appropriate econometric methodology as well as techniques from data science to research questions in various fields of economics such as international trade and asset pricing. They can utilize their findings to develop recommendations for economic policy and the private sector.

Graduates who study *without track* can apply economic models and empirical methods to a wide range of research questions in microeconomics, macroeconomics, and economic history. The flexibility of the no-track option allows students to connect approaches from different fields to evaluate complex economic questions and develop policy recommendations in line with their specific areas of interest.

Graduates are capable to constructively discuss the latest research and to independently develop of their own scientific projects. Accordingly, they can contribute to the academic discourse in the field of economics.

### Study Abroad

This program can be completed with a double degree in cooperation with the University of Nottingham. In order to participate in the Double Degree program students must be accepted as double degree students during the application process. For more information on the double degree option please see below.

Aside from the double degree option, this program does not offer an integrated stay abroad. Should a student wish to include a semester abroad in his or her studies, it is recommended to do this in the 3<sup>rd</sup> or 4<sup>th</sup> semester of study. However, depending on the chosen partner university and the individual course of study, such a non-integrated stay abroad may result in a delay of studies. Students who are looking for an integrated stay abroad and do not wish to pursue the double degree option of this master program are invited to consider the M.Sc. in European Economics.

## **Educational Qualification and Language Requirements**

To enter the program M.Sc. in Economics, a Bachelor's degree in Economics, Business Administration or any related field is required, preferably a degree that amounts to 180 ECTS-credits. We expect students to be familiar with the basic principles, theories and concepts in the field of Economics. In addition, sound intermediate level knowledge of Microeconomics, Macroeconomics and Quantitative Methods (Mathematics, Statistics, Econometrics) is expected.

The instruction and examination language for this program is English. Thus, a very good knowledge of English (e.g. B2-Niveau, Common European Framework of Reference for Languages) is required. German is not required. German language courses are available to international students.

## **Curriculum**

The four-semester program in Economics can be studied both as a pure Economics program and with one of three interdisciplinary track specializations, namely Economic History and Development, Empirical Methods and Data Analysis or International Economics. The curriculum is divided up into three main areas of study: Core Studies, Specialization Studies and Elective Studies. Furthermore, students are required to complete the module Advanced Topics in Economics which prepares them for the Master Thesis. To complete the program, students have to obtain 120 ECTS credits, 24 of which are awarded for the Master Thesis.

Within the Core Studies, all students complete three Core Modules (Advanced Macroeconomics, Advanced Microeconomics and one module in the area of Core Studies Econometrics) and earn 9 ECTS credits in each of them. Students who choose either of the three tracks Economic History and Development, Empirical Methods and Data Analysis or International Economics complete between 21 and 30 ECTS credits in their track modules and between 21 and 39 ECTS credits in the Economics, Econometrics and Finance modules. In total, students have to complete at least 51 ECTS credits from the track modules and the EEF modules.

Students who choose to study the program without a track complete at least 51 ECTS credits in the Economics, Econometrics & Finance modules.

Students must complete the module "Advanced Topics in Economics" which earns them 9 ECTS credits.

In the Free Elective Studies students may take courses amounting to a maximum of 9 ECTS credits.

Before students can be admitted to the Master Thesis, they have to complete at least 27 ECTS credits worth of work in the Advanced Microeconomics and Advanced Macroeconomics modules, the Core Studies Econometrics module, in the Economics, Econometrics & Finance modules, in their track modules and/or the Advanced Topics in Economics modules. Furthermore, a supervisor may require the students to attend a Method Seminar before the Master Thesis project can be started. In case of a non-integrated stay abroad or similar extenuating circumstances, this seminar may have to be attended in the first academic year of the program.

## **PhD-Orientation**

This program can be completed with an explicit PhD-Orientation. The prerequisite for this additional entry on the certificate is (in addition to the successful completion of the program) that a minimum of 27 ECTS-credits outside of the Core Studies must have been obtained in modules that are described as PhD-oriented in this handbook.

## Curriculum M.Sc. Economics without track

1 <sup>st</sup> - 4 <sup>th</sup> Semester							
Advanced Microeconomics <sup>1)</sup>	9	Economics, Econometrics, Finance <sup>2)</sup>	30	Economics, Econometrics, Finance <sup>2)</sup>	21-30	Advanced Topics in Economics <sup>4)</sup>	9
Advanced Macroeconomics <sup>1)</sup>	9					Master Thesis in Economics <sup>5)</sup>	24
Core Studies Econometrics <sup>1)</sup>	9						

1) **Core Studies Economics:** Advanced Microeconomics and Advanced Macroeconomics plus either Advanced Time Series Analysis (WS) or Advanced Microeconometrics (SS)

2) At least 51 ECTS in **Economics, Econometrics and Finance (EEF)**

3) Up to 9 ECTS in **Free Electives**

4) The module "**Advanced Topics in Economics**" prepares the student for the Master Thesis project.

5) The Master Thesis project may be started as early on as in the 2nd semester, please see student counselling and the intended supervisor to talk about your options.

The third and fourth semester are best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

### The individual curriculum for the M.Sc. in Economics without track could be designed as follows:

1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester		3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester	
E424 Advanced Microeconomics I	9	Economics, Econometrics, Finance E411 Economics of Taxation	9	CM5_02 Advanced Topics in Economics	9	MA5_02 Master Thesis in Economics	24
E433 Advanced Macroeconomics I	9	Economics, Econometrics, Finance E453A Economic Growth	6	Free Elective Studies B440 Personnel Economics	9		
Core Studies Econometrics S411 Advanced Time Series Analysis	9	Economics, Econometrics, Finance E437 Computational Macroeconomics	9	Economics, Econometrics, Finance E431 Open Economy Macroeconomics	6		
Economics, Econometrics, Finance S414 Advanced Mathematical Methods	3	Economics, Econometrics, Finance E456 Behavioral Economics	6	Economics, Econometrics, Finance E410 Fiscal Federalism	6		
<b>30</b>		<b>30</b>		<b>30</b>		<b>30</b>	

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. Economics Track Economic History and Development

1 <sup>st</sup> - 4 <sup>th</sup> Semester							
Advanced Microeconomics <sup>1)</sup>	9	Compulsory track modules <sup>4)</sup>	18-27	Economics, Econometrics, Finance <sup>2)</sup>	21-39	Advanced Topics in Economics <sup>6)</sup>	9
Advanced Macroeconomics <sup>1)</sup>	9					Master Thesis in Economics <sup>7)</sup>	24
Core Studies Econometrics <sup>1)</sup>	9						

1) **Core Studies Economics:** Advanced Microeconomics and Advanced Macroeconomics plus either Advanced Time Series Analysis (WS) or Advanced Microeconometrics

2) At least 21 ECTS in **Economics, Econometrics and Finance (EEF)**

3) Up to 9 ECTS in **Free Electives**

4) **Compulsory track modules:** At least 18 ECTS from E480 (9 ECTS), E580 (9 ECTS), E581 (9 ECTS)

5) **Total track modules** (compulsory + elective): at least 21 ECTS

6) The module "**Advanced Topics in Economics**" prepares the student for the Master Thesis project.

7) The **Master Thesis** project may be started as early on as in the 2nd semester, please see student counselling and the intended supervisor to talk about your options.

The third and fourth semester are best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

The individual curriculum for the M.Sc. in Economics with track Economic History could look as follows:

1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester
E424 Advanced Microeconomics I 9	Compulsory Track Modules E580 Topics in International Economic History I 9	Economics, Econometrics, Finance E461 Empirical Topics in International Trade 9	MA5_02 Master Thesis in Economics 24
E433 Advanced Macroeconomics I 9	Elective Track Modules E481 Topics in History I 9	CM5_02 Advanced Topics in Economics 9	
Core Studies Econometrics S411 Advanced Time Series Analysis 9	Free Elective Studies B413 Empirical Banking 9	Economics, Econometrics, Finance E431 Open Economy Macroeconomics 6	
Economics, Econometrics, Finance S414 Advanced Mathematical Methods 3		Compulsory Track Modules E480: Empirical Studies on Migration, Trade and Growth in the Long Run 9	Economics, Econometrics, Finance E432 Advanced Labour Economics 6
<b>30</b>	<b>27</b>	<b>33</b>	<b>30</b>

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. Economics Track Empirical Methods and Data Analysis

1 <sup>st</sup> - 4 <sup>th</sup> Semester							
Advanced Microeconomics <sup>1)</sup>	9	Elective track modules <sup>5)</sup>	21-30	Economics, Econometrics, Finance <sup>2)</sup>	21-39	Advanced Topics in Economics <sup>6)</sup>	9
Advanced Macroeconomics <sup>1)</sup>	9			Free Elective Studies <sup>3)</sup>	0-9	Master Thesis in Economics <sup>7)</sup>	24
Core Studies Econometrics <sup>1)</sup>	9						

1) **Core Studies Economics:** Advanced Microeconomics and Advanced Macroeconomics plus either Advanced Time Series Analysis (WS) or Advanced Microeconometrics (SS)

2) At least 21 ECTS in **Economics, Econometrics and Finance (EEF)**

3) Up to 9 ECTS in **Free Electives**

4) **Compulsory track modules:** None

5) **Total track modules (elective):** at least 21 ECTS

6) The module "**Advanced Topics in Economics**" prepares the student for the Master Thesis project.

7) The **Master Thesis** project may be started as early on as in the 2nd semester, please see student counselling and the intended supervisor to talk about your options.

The third and fourth semester are best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

### The individual curriculum for the M.Sc. in Economics with track Empirical Methods and Data Analysis could look as follows:

1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester		3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester	
E424 Advanced Microeconomics I	9	Elective Track Modules S422 Advanced Microeconometrics	9	Economics, Econometrics, Finance E431 Open Economy Macroeconomics	6	MA5_02 Master Thesis in Economics	24
E433 Advanced Macroeconomics I	9		9	Economics, Econometrics, Finance E440 Multinational Enterprises	6		
Core Studies Econometrics S411 Advanced Time Series Analysis	9	Free Elective Studies B421 eBusiness	6	Elective Track Modules E461 Empirical Topics in International Trade	9		
Economics, Econometrics, Finance S414 Advanced Mathematical Methods	3	Elective Track Modules E443 Empirical Methods and Data Analysis 2	6	CM5_02 Advanced Topics in Economics	9	Economics, Econometrics, Finance E432 Advanced Labour Economics	6
<b>30</b>		<b>30</b>		<b>30</b>		<b>30</b>	

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. Economics Track International Economics

1 <sup>st</sup> - 4 <sup>th</sup> Semester							
Advanced Microeconomics <sup>1)</sup>	9	Compulsory track modules <sup>4)</sup>	18-27	Economics, Econometrics, Finance <sup>2)</sup>	21-39	Advanced Topics in Economics <sup>6)</sup>	9
Advanced Macroeconomics <sup>1)</sup>	9					Master Thesis in Economics <sup>7)</sup>	24
Core Studies Econometrics <sup>1)</sup>	9	Elective Track modules <sup>5)</sup>	3-12	Free Elective Studies <sup>3)</sup>	0-9		

1) **Core Studies Economics:** Advanced Microeconomics and Advanced Macroeconomics plus either Advanced Time Series Analysis (WS) or Advanced Microeconometrics (SS)

2) At least 21 ECTS in **Economics, Econometrics and Finance (EEF)**

3) Up to 9 ECTS in **Free Electives**

4) **Compulsory track modules** international economics: At least 18 ECTS

5) **Total track modules (compulsory + elective):** at least 21 ECTS

6) The module "**Advanced Topics in Economics**" prepares the student for the Master Thesis project.

7) The **Master Thesis** project may be started as early on as in the 2nd semester, please see student counselling and the intended supervisor to talk about your options.

The third and fourth semester are best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

**The individual curriculum for the M.Sc. in Economics with track International Economics could be designed as follows:**

1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester		3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester	
E424 Advanced Microeconomics I	9	Compulsory Track Modules E421 International Trade I	9	Elective Track Modules E461 Empirical Topics in International Trade	9	MA5_02 Master Thesis in Economics	24
E433 Advanced Macroeconomics I	9	Economics, Econometrics, Finance E456 Behavioral Economics	6	Compulsory Track Modules E440 Multinational Enterprises	6		
Core Studies Econometrics S411 Advanced Time Series Analysis	9	Free Elective Studies B401 Continuous-time Derivatives Pricing	9	Elective Track Modules E431 Open Economy Macroeconomics	6		
Economics, Econometrics, Finance S414 Advanced Mathematical Methods	3	Economics, Econometrics, Finance E441 Advanced Microeconomics II	6	CM5_02 Advanced Topics in Economics	9	Economics, Econometrics, Finance E432 Advanced Labour Economics	6
<b>30</b>		<b>30</b>		<b>30</b>		<b>30</b>	

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.



### **Double Degree Option (University of Nottingham)**

The program in M.Sc. Economics can be completed as a double degree with the *University of Nottingham*.

Students of the M.Sc. in Economics from the University of Tübingen taking part in the Double Degree program with the University of Nottingham spend one year at the University of Nottingham and one year at the University of Tübingen.

Students of this double degree option begin their studies at the University of Nottingham enrolled in one of the following programs depending on their respective academic interests: M.Sc. Economics, M.Sc. Economics and Econometrics, M.Sc. Economics and International Economics, M.Sc. Economics and Financial Economics, M.Sc. Behavioural Economics, M.Sc. Economics and Development Economics.

During their first semester in Nottingham, all students attend the modules Microeconomic Theory, Macroeconomic Theory, Econometric Theory and Economic Data Analysis. In their second semester at Nottingham students choose two modules (module selection subject to the chosen M.Sc. program at the University of Nottingham) and two Elective Modules, earning a total of 60 ECTS-credits towards their M.Sc. program at the University of Tübingen.

The first three (Microeconomic Theory, Macroeconomic Theory and Econometric Theory) are equivalent to the Core Modules in the M.Sc. in Economics at the University of Tübingen while the course on Economic Data Analysis as well as all other coursework completed at the partner university is transferred as modules taken within the Specialization or Elective Studies. The transfer of coursework to the modules of the M.Sc. in Economics at the University of Tübingen is completed by the program coordinator on an individual basis.

While at the University of Nottingham, students also complete the ERM Methodology module (15 credits) as this is mandatory in order to obtain the master degree from the University of Nottingham. The credits earned here are not transferred to the University of Tübingen.

In their third and fourth semester, students study at the University of Tübingen where they complete coursework worth 36 ECTS-credits within the areas of Specialization and Elective Studies and in the Module Advanced Topics in Economics. Finally, students write a jointly supervised Master Thesis worth 24 ECTS-credits.

## Curriculum M.Sc. Economics Double Degree Nottingham

1.-2. Semester (at Nottingham)		3. - 4. Semester Tübingen			
Courses taken at the University of Nottingham <sup>1)</sup>	60	Modules out of Specialization Studies and Elective Studies <sup>2)</sup>	total 27	Advanced Topics in Economics	9
				Masterthesis in Economics	24

1) These courses are taken at the University of Nottingham based on their rules and regulations.

2) Depending on the modules taken at the University of Nottingham students take additional courses from the area of specialization and elective studies that amount to 27 ECTS credits.

**The individual curriculum for the Double Degree with the University of Nottingham could be designed as follows:**

1 <sup>st</sup> - 2 <sup>nd</sup> Semester (at Nottingham)			3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester		
Macroeconomic Theory <sup>1)</sup>	9	Economic Data Analysis <sup>1)</sup>	3	Economics, Econometrics, Finance E450A Game Theory and Industrial Organization	6	Free Elective Studies B404 Modern Issues in Finance	6
		Specialization Course I <sup>1)</sup>	30	Economics, Econometrics, Finance E427 Globalization and Labor Markets I	9	MA5_02 Masterthesis in Economics	24
Microeconomic Theory <sup>1)</sup>	9	Specialization Course II <sup>1)</sup>		Economics, Econometrics, Finance E431 Open Economy Macroeconomics	6		
		Elective Course I <sup>1)</sup>		CM5_02 Advanced Topics in Economics	9		
Econometric Theory <sup>1)</sup>	9	Elective Course II <sup>1)</sup>					
		ERM Methodology <sup>1)</sup>					

1) These courses are taken at the University of Nottingham based on their rules and regulations.

This is one possible curriculum design, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. Economics

<i>Number</i>	<i>Module Title</i>	<i>Rec. Sem.</i>	<i>ECTS- credits</i>	<i>WS/SS</i>
<b>MSC-E-Macro-23 Advanced Macroeconomics (9 ECTS-credits, compulsory)</b>				
E433	Advanced Macroeconomics I	1	9	WS
<b>MSC-E-Micro-23 Advanced Microeconomics (9 ECTS-credits, compulsory)</b>				
E424	Advanced Microeconomics I	1	9	WS
<b>MSC-CSEmet-23 Core Studies Econometrics (9 ECTS-credits, required elective)</b>				
S411	Advanced Time Series Analysis	1	9	WS
S422	Advanced Microeconometrics	2	9	SS
<b>MSC-E-EEF-23 Specialization Studies Economics, Econometrics &amp; Finance (21-30 / 21-39 / 51-60 ECTS Credits, required elective)</b>				
B400	Advanced Corporate Finance	1-4	9	WS
B401	Continuous-time Derivatives Pricing	1-4	9	SS
B404	Modern Issues in Finance 1	1-4	6	WS, SS
B405	Modern Issues in Finance 2	1-4	6	WS, SS
B411	Theorie der Bank	1-4	9	SS
B413	Empirical Banking	1-4	9	SS
B464	Financial Institutions in the "New Normal"	1-4	6	SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
E410	Fiscal Federalism	1-4	6	WS
E411	Economics of Taxation	1-3	9	SS
E412	Topics in Public Policy I	1-4	9	WS, SS
E413	Topics in Public Policy II	1-4	9	WS, SS
E414	Topics in Public Policy III	1-4	9	WS, SS
E421	International Trade I	1-4	9	SS
E422	International Trade II	1-4	9	SS
E431	Open Economy Macroeconomics	1-4	6	WS
E432	Advanced Labour Economics	1-4	6	SS
E434	Advanced Macroeconomics II	1-4	9	SS
E435	European Economic Integration	1-4	9	SS
E436	Quantitative Macroeconomics	1-4	9	WS
E437	Computational Macroeconomics	1-4	9	SS
E440	Multinational Enterprises	1-4	6	WS
E441	Advanced Microeconomics II	1-4	6	SS
E450A	Game Theory and Industrial Organization	1-4	6	WS
E450B	Game Theory and Industrial Organization	1-4	9	WS
E453A	Economic Growth	1-4	6	SS
E453B	Economic Growth	1-4	9	SS
E454	Innovation and Technological Change	1-4	6	WS

Curriculum M.Sc. Economics

E456	Behavioral Economics	1-4	6	SS
E471	Empirical Topics in International Trade	1-4	9	WS
E463	Causal Machine Learning	1-4	9	WS
E464	Causal Inference	1-4	6	SS
E475	Macro-Finance	1-4	9	WS
E480	Empirical Studies on Migration, Trade and Growth in the Long Run	1-4	9	WS
E550	Topics in Applied Economic Theory	1-4	9	WS, SS
E580	Topics in International Economic History I	1-4	9	WS, SS
E581	Topics in International Economic History II	1-4	9	WS, SS
S411	Advanced Time Series Analysis	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S414	Advanced Mathematical Methods	1-4	3	WS
S415	Machine Learning in Econometrics	1-4	6	SS
S420	Statistics of Financial Markets	1-4	9	WS
S422	Advanced Microeconometrics	1-4	9	SS

***MSC-E-CTMEH-23 Compulsory Track Modules Economic History (0 / 18-27 ECTS-credits, elective)***

E480	Empirical Studies on Migration, Trade and Growth in the Long Run	1-4	9	WS
E580	Topics in International Economic History I	1-4	9	WS, SS
E581	Topics in International Economic History II	1-4	9	WS, SS

***MSC-E-ETMEH-23 Elective Track Modules Economic History (0 / 3-12 ECTS-credits, elective)***

E480	Empirical Studies on Migration, Trade and Growth in the Long Run	1-4	9	WS
E481	Topics in History I	1-4	9	WS, SS
E482	Topics in History II	1-4	9	WS, SS
E483	Topics in History III	1-4	3	WS, SS
E484	Topics in History IV	1-4	3	WS, SS
E580	Topics in International Economic History I	1-4	9	WS, SS
E581	Topics in International Economic History II	1-4	9	WS, SS

***MSC-E-CTMIE-23 Compulsory Track Modules International Economics (0 / 18-27 ECTS-credits, elective)***

E421	International Trade I	1-4	9	SS
E422	International Trade II	1-4	9	SS
E431	Open Economy Macroeconomics	1-4	6	WS
E440	Multinational Enterprises	1-4	6	WS
E471	Empirical Topics in International Trade	1-4	9	WS

***MSC-E-ETMIE-23 Elective Track Modules International Economics (0 / 3-12 ECTS-credits, elective)***

E421	International Trade I	1-4	9	SS
E422	International Trade II	1-4	9	SS
E431	Open Economy Macroeconomics	1-4	6	WS

Curriculum M.Sc. Economics

E440	Multinational Enterprises	1-4	6	WS
E471	Empirical Topics in International Trade	1-4	9	WS
E465	Language and Culture I	1-4	9	WS, SS
E466	Language and Culture II	1-4	9	WS, SS
E467	Language and Culture III	1-4	6	WS, SS
E468	Language and Culture IV	1-4	6	WS, SS

**MSC-E-ETMEM-23 Elective Track Modules Empirical Methods and Data Analysis (0 / 21-30 ECTS-credits, elective)**

E442	Empirical Methods and Data Analysis I	1-4	9	WS, SS
E443	Empirical Methods and Data Analysis II	1-4	9	WS, SS
E444	Empirical Methods and Data Analysis III	1-4	6	WS, SS
E445	Empirical Methods and Data Analysis IV	1-4	6	WS, SS
E471	Empirical Topics in International Trade	1-4	9	WS
E463	Causal Machine Learning	1-4	9	WS
E464	Causal Inference	1-4	6	SS
S411	Advanced Time Series Analysis	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S415	Machine Learning in Econometrics	1-4	6	SS
S420	Statistics of Financial Markets	1-4	9	WS
S422	Advanced Microeconometrics	1-4	9	SS

**MSC-E-AT-23 Advanced Topics in Economics(9 ECTS-credits, compulsory)**

CM5_02	Advanced Topics in Economics	2-4	9	WS or SS
--------	------------------------------	-----	---	----------

**MSC-FES-23 Free Elective Studies (0 - 9 ECTS-credits, elective)**

<p>Within this area, students may choose freely from all modules for Master students offered by the School of Business and Economics. The modules Advanced Topics are not eligible. Students may also choose from a select number of modules offered by other institutions. Eligible modules are listed in the Module Handbook for External Courses (Modulhandbuch für außerfachliche Veranstaltungen) (<a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a>).</p>	1-4	3/6/9/ other, depend- ing on module	WS,SS
---	-----	---	-------

**MSC-E-MT-23 Master Thesis in Economics (24 ECTS-Credits, compulsory)**

MA5_02	Master Thesis in Economics	4	24	WS, SS
--------	----------------------------	---	----	--------

## **Curriculum M.Sc. Economics and Finance**

The M.Sc. program in Economics and Finance is oriented towards students who are planning to pursue a professional career either in academia or in the private sector. The program combines the University of Tübingen's competencies in the fields of economics, finance, and econometrics and offers students a wide range of options for specialization. Having completed the program, graduates have several career options working at the intersection of economics and finance, e.g. at regulatory agencies and central banks, financial institutions, financial departments of corporations, NGOs, and consulting. Because the program is rigorous in terms of scientific demand, it also lays the foundation for a possible career in academia, in particular when the program is completed with the optional PhD orientation.

### **Objectives**

The effects of the financial crisis of 2008 proved understanding the nexus between the real economy and financial markets is important for the welfare of the society. Moreover, the proliferation of data, produced in particular in the financial sector, and the scientific necessity to empirically test hypotheses about the mentioned nexus, require the competent use of modern econometric analysis. The program seeks to impart this knowledge and the theoretical and empirical skill set to future professionals by combining elements from a) modern finance, where the focus is on understanding and designing financial instruments, financial markets, and asset pricing, b) micro- and macroeconomics, and c) state-of-the-art econometric and statistical methods.

Graduates of the M.Sc. in Economics and Finance program can transfer their acquired in-depth knowledge and analytical abilities to various problems from economics and/or business contexts. They are able to develop creative solution strategies to practical economic and business challenges. Furthermore, graduates of the M.Sc. in Economics and Finance program are able to understand and critically analyze articles in leading journals in the fields of finance, econometrics, and economics. They can differentiate theories in financial economics and are able to utilize this in-depth knowledge to evaluate and interpret current market developments.

The Elective Studies section of the program allows students to select advanced modules in the fields of finance, (international) economics and econometrics, thereby enabling them to gain further qualifications in their respective area of interest. This flexible tailoring of the study program equips graduates with an individualized knowledge and skill set. Specifically, graduates who chose to complete modules from the Elective Studies in (International) Economics are particularly competent in applying theories for empirical analyses of (international) macroeconomics and trade. They are able to develop policy recommendations based on specific economic problems. Moreover, graduates who selected modules from the Elective Studies in Finance segment can analyze and assess (international) financial markets from both a theoretical and econometric standpoint. They are able to outline the principles of financial economics and to apply these to real-world scenarios. Graduates who chose to complete modules from the Elective Studies in Econometrics section are particularly able to utilize econometric theory. They can choose and employ appropriate econometric techniques to research questions in various fields and can infer recommendations and strategies from their findings.

Graduates are not only in a position to constructively discuss the latest research, but also to independently develop their own scientific projects and to contribute to the academic discourse in the field of Economics.

### **Study Abroad**

This program does not offer an integrated stay abroad. Should a student wish to spend a semester abroad, it is recommended to do this in the 3<sup>rd</sup> or 4<sup>th</sup> semester of study.

### **Educational Qualification and Language requirements**

To enter the program, a Bachelor's degree in economics, business administration or a related field is required and a sound intermediate-level knowledge of microeconomics, macroeconomics, finance, mathematics, statistics, and econometrics is expected.

The instruction and examination language for this program is English. Thus, a very good proficiency of English

(e.g., B2-Niveau, Common European Framework of Reference for Languages) is required. German is not required. However, German language courses are available to interested international students.

### **Curriculum**

The four-semester program is comprised of three main areas of study: Core Studies, Specialization Studies and Elective Studies. Furthermore, students are required to attend the module Advanced Topics in Economics and Finance in preparation of their master thesis. To complete the program, students have to obtain 120 ECTS credits, 30 of which are awarded for the master thesis.

The Core Studies section of the program consist of three areas: Econometrics, Economics, and Finance. For each of these fields, students complete a module, thereby earning 27 ECTS credits in total. In the Specialization Studies, students have to obtain a total of 27 ECTS credits by completing one module out of each of the three areas of Specialization Studies (Econometrics, Economics and Finance). Students also must complete the module Advanced Topics in Economics and Finance which earns them another 9 ECTS credits. In the Free Elective Studies segment of the program, students have to obtain a total of 27 ECTS credits. They may complete additional modules from the core fields Economics, Econometrics & Finance or they may choose modules from the entire course catalog of the School of Business and Economics and from the Module Handbook for external courses in accordance with the rules stated there.

Before students can be admitted to the master thesis, they have to complete three modules from the Core and Specialization Studies areas and/or the Advanced Topics in Economics and Finance module, worth a total of at least 27 ECTS credits.

### **PhD-Orientation**

The program can be completed with a PhD-orientation. The prerequisite for this additional entry on the certificate is (in addition to the successful completion of the program) that a minimum of 27 ECTS-credits outside of the Core Studies must have been obtained in modules that are described as PhD-oriented in this handbook.

## Curriculum M.Sc. Economics and Finance

1 <sup>st</sup> - 4 <sup>th</sup> Semester							
Core Studies Economics	9	Specialization Studies Economics	9	Free Elective Studies	total 27	Advanced Topics in Economics and Finance <sup>1)</sup>	9
Core Studies Finance	9	Specialization Studies Finance	9			Master Thesis in Economics and Finance <sup>2)</sup>	30
Core Studies Econometrics	9	Specialization Studies Econometrics	9				

1) The module Advanced Topics in Economics and Finance prepares students for writing their master thesis.

2) The master thesis project may be started earlier. Please see student counseling and the intended supervisor to talk about your options."

The third and fourth semester are best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

The individual curriculum for the M.Sc. In Economics and Finance could be designed as follows:

1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester
Core Studies Economics E433 Advanced Macroeconomics I	Core Studies Finance B401 Continuous-time Derivatives Pricing	CM5_03 Advanced Topics in Economics and Finance	MA5_03 Master Thesis in Economics and Finance
Core Studies Econometrics S411 Advanced Time Series Analysis	Specialization Studies Econometrics S422 Advanced Microeconomics		
Specialization Studies Finance B400 Advanced Corporate Finance	Free Elective Studies S412 Empirical Asset Pricing	Specialization Studies Economics S413 Financial Economics	
Free Elective Studies S414 Advanced Mathematical Methods	Free Elective Studies S415 Machine Learning in Econometrics	Free Elective Studies S420 Statistics of Financial Markets	
30	33	27	30

This is one of many possible curriculum designs, please see student counseling if you need help designing your individual curriculum.



## Curriculum M.Sc. Economics and Finance

<i>Number</i>	<i>Title</i>	<i>Rec. Sem.</i>	<i>ECTS-credits</i>	<i>WS/SS</i>
<b><i>MSC-CSEmet-23 Core Studies Econometrics (9 ECTS-credits, required elective)</i></b>				
S411	Advanced Time Series Analysis	1	9	WS
S422	Advanced Microeconometrics	2	9	SS
<b><i>MSC-CSEcon-23 Core Studies Economics (9 ECTS-credits, required elective)</i></b>				
E424	Advanced Microeconomics I	1	9	WS
E433	Advanced Macroeconomics I	1	9	WS
<b><i>MSC-CSFin-23 Core Studies Finance (9 ECTS-credits, required elective)</i></b>				
B400	Advanced Corporate Finance	1	9	WS
B401	Continuous-time Derivatives Pricing	2	9	SS
<b><i>MSC-EF-SPSEmet-23 Specialization Studies Econometrics (9 ECTS-credits, required elective)</i></b>				
S411	Advanced Time Series Analysis	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S414	Advanced Mathematical Methods	1-3	3	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S420	Statistics of Financial Markets	1-3	9	WS
S422	Advanced Microeconometrics	1-3	9	SS
E463	Causal Machine Learning	1-3	9	WS
E464	Causal Inference	1-3	6	SS
<b><i>MSC-EF-SPSEcon-23 Specialization Studies Economics (9 ECTS-credits, required elective)</i></b>				
E411	Economics of Taxation	1-3	9	SS
E421	International Trade I	1-3	9	SS
E422	International Trade II	1-3	9	SS
E424	Advanced Microeconomics I	1-3	9	WS
E431	Open Economy Macroeconomics	1-3	6	WS
E432	Advanced Labour Economics	1-3	6	SS
E433	Advanced Macroeconomics I	1-3	9	WS
E434	Advanced Macroeconomics II	1-3	9	SS
E435	European Economic Integration	1-3	9	SS
E436	Quantitative Macroeconomics	1-3	9	WS
E437	Computational Macroeconomics	1-3	9	SS
E441	Advanced Microeconomics II	1-3	6	SS
E450A	Game Theory and Industrial Organization	1-3	6	WS
E450B	Game Theory and Industrial Organization	1-3	9	WS
E453A	Economic Growth	1-3	6	SS
E453B	Economic Growth	1-3	9	SS
E454	Innovation and Technological Change	1-3	6	WS

Curriculum M.Sc. Economics and Finance

E456	Behavioral Economics	1-3	6	SS
E463	Causal Machine Learning	1-3	9	WS
E464	Causal Inference	1-3	6	SS
E550	Topics in Applied Economic Theory	1-3	9	WS, SS
S413	Financial Economics	1-3	9	WS

**MSC-EF-SPSFin-23 Specialization Studies Finance (9 ECTS-credits, required elective)**

B400	Advanced Corporate Finance	1-3	9	WS
B401	Continuous-time Derivatives Pricing	1-3	9	SS
B404	Modern Issues in Finance 1	1-3	6	WS, SS
B405	Modern Issues in Finance 2	1-3	6	WS, SS
B411	Theorie der Bank	1-3	9	SS
B413	Empirical Banking	1-3	9	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
E431	Open Economy Macroeconomics	1-3	6	WS
E475	Macro-Finance	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S414	Advanced Mathematical Methods	1-3	3	WS
S420	Statistics of Financial Markets	1-3	9	WS

**MSC-EF-AT-12 Advanced Topics in Economics and Finance (9 ECTS-credits, compulsory)**

CM5_03	Advanced Topics in Economics and Finance	2-3	9	WS or SS
--------	--	-----	---	----------

**MSC-FES-23 Free Elective Studies (27 ECTS-credits, required elective)**

Within this area, students may choose freely from all modules for Master students offered by the School of Business and Economics. The modules Advanced Topics are not eligible. Students may also choose from a selected number of modules offered by other institutions. Eligible modules are listed in the Module Handbook for External Courses (Modulhandbuch für außerfachliche Veranstaltungen) ( <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> ).	1-3	3/6/9/other, depending on module	WS, SS
--	-----	----------------------------------	--------

**MSC-EF-MT-23 Master Thesis in Economics and Finance (30 ECTS-Credits, compulsory)**

MA5_03	Master Thesis in Economics and Finance	4	30	WS, SS
--------	--	---	----	--------

## Curriculum M.Sc. European Economics

The four-semester M.Sc. program in European Economics is completed in equal shares at the University of Tübingen and a partner university (Aix-Marseille University, University of Pavia or University of Nottingham). This binational approach endows students with the skills and capacities necessary both for a career in academia and to compete in the European economic world. Thus, graduates have a wide range of career options in international companies or institutions of the public sectors. Due to the international focus of the program graduates are able to get into different working procedures in different countries efficiently and to adopt beneficial parameters being used in other cultures. Beside the basic economic abilities (see "M.Sc. Economics"), the latter can be defined as the core competency gained by completing this master program.

### Objectives

Graduates of the M.Sc. in European Economics develop a profound understanding of the methods and methodologies of economics. They are able to transfer the methods to other fields of study and are thus able to develop solutions to problems in various fields of business studies and economics both in theoretical and professional contexts.

Students are able to understand and critically analyze journal articles in macro- and microeconomics, econometrics and other advanced fields of economics, econometrics and finance. They can discuss recent theories in Economics and related fields and are able to utilize them to evaluate and interpret current economic developments.

Students are able to select from a wide field of advanced modules on International Economics, Economics, Econometrics and Finance in order to further enhance their knowledge and specific skills in their chosen area of interest. Consequently, the qualification of each student is also partly dependent on his/her choice of modules in the Elective Studies section of the study programme. The following overview attempts to specify the objectives further.

Graduates who chose to complete modules from the Elective Studies in International Economics are particularly competent in analyzing and applying theories and empirical analyses of international macroeconomics and international trade. They are able to assess the implications of specific developments in an international environment.

Graduates who chose to complete modules from the Elective Studies in Economics can apply economic models, particularly in the area of microeconomics. They are able to develop policy recommendations based on specific economic problems, particularly regarding market structures and corporate strategy.

Graduates who chose to complete modules from the Elective Studies in Finance can utilize econometric methods and theoretical concepts to analyze and assess (international) financial markets. They can explain principles of financial economics and are able to apply these to real-world scenarios in order to develop specific recommendations, for instance, for corporations or public sector organizations.

Graduates who chose to complete modules from the Elective Studies in Econometrics can perform complex econometric analyses. They are able to employ appropriate econometric methodology and techniques to research questions in various fields of economics and can develop recommendations based upon their findings.

Graduates are capable to constructively discuss the latest research and to independently develop of their own scientific projects. Accordingly, they can contribute to the academic discourse in the field of economics.

### Study Abroad

This program is a Double Degree program which includes an integrated stay abroad at a partner university. Consequently, it is not possible to organise an individual stay abroad either in addition to or in place of the integrated stay abroad. Students who do not wish to pursue a Double Degree program are invited to have a look at the other M.Sc. programs offered by the school.

## **Educational Qualification and Language requirements**

To enter the program M.Sc. European Economics, a Bachelor's degree in Economics or Business Administration amounting to 180 ECTS-credits is required. We expect students to be familiar with the basic principles, theories and concepts in the field of economics. In addition, sound intermediate level knowledge in three of the following areas: Microeconomics, Macroeconomics, Finance and Quantitative Methods (Mathematics, Statistics, Econometrics) is expected.

The instruction and examination language for this program is English. Thus, a very good knowledge of English (e.g. B2-Niveau, Common European Framework of Reference for Languages) is required. German is not required. German language courses are available to international students.

University of Pavia: Italian is no formal requirement but it is strongly advised to take at least one language course in preparation of the stay abroad if the student is not yet fluent in Italian.

University of Nottingham: Students are required to produce a valid (!) language test, such as IELTS or TOEFL, in order to be matriculated at the University of Nottingham. For further details please see our website.

Aix-Marseille University: French is no formal requirement but it is strongly advised to take at least one language course in preparation of the stay abroad if the student is not yet fluent in French.

## **Curriculum**

The Master of Science program in European Economics is completed at the University of Tübingen and one of its partner universities. The part of the program which is completed at the University of Tübingen is divided into three main areas of study: Core Studies, Specialization Studies and Elective Studies. To complete the program, students have to obtain a total of 120 ECTS-credits, 60 ECTS-credits at each of the two universities. There are two modes of study, depending on whether or not the Master Thesis is completed at the University of Tübingen.

### **A: Master Thesis at the Partner University**

Within the Core Studies, students choose two focuses (Econometrics, Economics, International Economics, Finance). In order to complete the Core Studies, students have to complete the core module worth 9 ECTS-credits in each chosen focus.

In the Specialization Studies, students have to obtain a minimum of 33 and a maximum of 42 ECTS-credits by choosing modules out of the two chosen focuses. Modules chosen within this area must be assigned to the focuses chosen in the area of Core Studies. Within each of the focuses, a minimum of 6 ECTS-credits must be obtained.

In the area of Elective Studies, students may obtain up to 9 ECTS-credits.

Aix-Marseille University: Students in the Double Degree with Aix-Marseille University have to decide on one of two tracks: In the Economics track, they have to take the Core Studies Focus Economics and either Core Studies Focus Econometrics or Core Studies Focus International Economics. In the Finance track, they have to take Core Studies Focus Econometrics and Core Studies Focus Finance. Modules chosen within the Specialization Studies must be assigned to the focuses chosen in the area of Core Studies.

For students in the Economics track, it is strongly recommended to take the module European Economics Integration for 9 ECTS. Students in the Economics track may only choose from the following selection of modules in the Specialization Studies Focus Economics:

- Financial Economics
- Advanced Mathematical Methods
- Economics of Taxation
- Monetary Economics
- Advanced Labour Economics
- Behavioral Economics

### **B: Master Thesis at the University of Tübingen**

Within the Core Studies, students choose one focus out of Econometrics, Economics, International Economics,

and Finance. In order to complete the Core Studies, students have to obtain 9 ECTS-credits in the chosen focus by completing the respective core module.

Within the Specialization Studies, students have to obtain a minimum of 9 and a maximum of 18 ECTS-credits by choosing modules out the chosen focus. Modules chosen within this area must be assigned to the focus chosen in the Core Studies.

Students are required to complete the module "Advanced Topics in European Economics."

Within the Elective Studies students may earn up to 9 ECTS-credits.

The student is required to complete modules that are worth a total of 30 ECTS-credits before he can be admitted to the Master Thesis. Furthermore, depending on the chair supervising the Master Thesis, attending a Method Seminar can be obligatory. Under certain conditions, e.g. studying abroad in the second academic year, this seminar must be attended in the first academic year of this program.

### **PhD-Orientation**

This program can be completed with an explicit PhD-Orientation. The prerequisite for this additional entry on the certificate is (in addition to the successful completion of the program) is that a minimum of 18 ECTS-credits outside of the Core Studies must have been obtained in modules that are described as PhD-oriented in this handbook.

**Curriculum M.Sc. European Economics (A)**

Second year at Partner University

1 <sup>st</sup> - 2 <sup>nd</sup> Semester					3 <sup>rd</sup> - 4 <sup>th</sup> Semester		
Core Studies Focus I <sup>1)</sup>	9	Specialization Studies Focus I <sup>2)</sup>	6-27	33-42	42	Modules taken at the Partner University <sup>3)</sup>	60
		Specialization Studies Focus II <sup>2)</sup>	6-27				
Core Studies Focus II <sup>1)</sup>	9	Free Elective Studies		0-9			

1) Students must choose two focuses and complete the Core Module worth 9 ECTS for each of these. Students in the Double Degree with Aix-Marseille University have to decide on one of two tracks: In the Economics Track, they have to take the Core Studies Focus Economics and either Core Studies Focus Econometrics or Core Studies Focus International Economics. In the Finance Track, they have to take Core Studies Focus Econometrics and Core Studies Focus Finance

2) Within the specialization studies students choose modules from their two chosen focuses amounting to 33 to 42 ECTS credits in total. Within each chosen focus students must earn a minimum of 6 ECTS credits. The total ECTS credits earned within the specialization and elective studies must be 42. For students in the Double Degree with Aix-Marseille University Economics Track, it is strongly recommended to take the module European Economic Integration for 9 ECTS. These students may only choose from a limited selection of modules in the Specialization Studies Focus Economics (see above).

3) Modules at the partner university must be chosen according to the universities' rules and regulations. Students must take care not to take modules that are equivalent to modules they have already taken during their studies at the partner university. The completion of a Master Thesis at the partner university, worth 24 ECTS, is mandatory. At Aix-Marseille University, students meet this requirement by completing equivalent achievements worth 24 ECTS in their chosen track.

### The individual curriculum for the M.Sc. in European Economics (A) could be designed as follows:

1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester		3 <sup>rd</sup> - 4 <sup>th</sup> Semester	
Core Studies Focus International Economics E433 Advanced Macroeconomics I	9	Core Studies Focus Finance B401 Continuous-time Derivative Pricing	9	Modules taken at the Partner University 60	
Specialization Studies Focus Economics E436 Quantitative Macroeconomics	9	Specialization Studies Focus Economics E580 Topics in International Economic History I	9		
Specialization Studies Focus Finance B404 Modern Issues in Finance	6	Free Elective Studies E456 Behavioral Economics	6		
Specialization Studies Focus Finance E431 Open Economy Macroeconomics	6	Specialization Studies Focus Economics E453A Economic Growth	6		
<b>30</b>		<b>30</b>		<b>60</b>	

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. European Economics (B) First year at Partner University

1 <sup>st</sup> - 2 <sup>nd</sup> Semester at Partner University		3 <sup>rd</sup> - 4 <sup>th</sup> Semester (Tübingen)						
Modules taken at the Partner University <sup>2)</sup>	60	Core Studies Focus I	9	Specialization Studies Focus I <sup>1)</sup>	9-18	18	Master Thesis in European Economics	24
		Advanced Topics in European Economics	9	Free Elective Studies	0-9			

1) Within the specialization studies students choose modules from their chosen focus amounting to 9 to 18 ECTS-credits in total. The total ECTS-credits earned within the specialization and elective studies must be 18.

2) Modules at the partner university must be chosen according to the university's rules and regulations. Students must take care not to take modules that are equivalent to modules they have already taken during their studies at the partner university. The completion of a Master Thesis at the partner university worth 24 ECTS is mandatory.

**The individual curriculum for the M.Sc. in European Economics (B) could be designed as follows:**

1 <sup>st</sup> - 2 <sup>nd</sup> Semester		3 <sup>rd</sup> Semester		4 <sup>th</sup> Semester		
Modules taken at the Partner University	60	Core Studies Focus Economics E433 Advanced Macroeconomics I	9	Free Elective Studies B421 eBusiness		6
		CM5_04 Advanced Topics in European Economics	9	MA5_04 Master Thesis in European Economics		24
		Specialization Studies Focus Economics E431 Open Economy Macroeconomics	6			
		Specialization Studies Focus Economics E450A Game Theory and Industrial Organization	6			
60	60	30	30	30		

This is one of many possible curriculums designs, please see student counselling if you need help designing your individual curriculum.

## Curriculum M.Sc. European Economics

<i>Number</i>	<i>Title</i>	<i>Rec. Sem.</i>	<i>ECTS-credits</i>	<i>WS/SS</i>
<b><i>MSC-CSEmet-23 Core Studies Focus Econometrics (0/9 ECTS-credits, elective)</i></b>				
S411	Advanced Time Series Analysis	1 / 3	9	WS
S422	Advanced Microeconometrics	2 / 4	9	SS
<b><i>MSC-CSEcon-23 Core Studies Focus Economics (0/9 ECTS-credits, elective)</i></b>				
E424	Advanced Microeconomics I	1 / 3	9	WS
E433	Advanced Macroeconomics I	1 / 3	9	WS
<b><i>MSC-CSIEcon-23 Core Studies Focus International Economics (0/9 ECTS-credits, elective)</i></b>				
E424	Advanced Microeconomics I	1 / 3	9	WS
E433	Advanced Macroeconomics I	1 / 3	9	WS
<b><i>MSC-CSFin-23 Core Studies Focus Finance (0/9 ECTS-credits, elective)</i></b>				
B400	Advanced Corporate Finance	1 / 3	9	WS
B401	Continuous-time Derivatives Pricing	2 / 4	9	SS
<b><i>MSC-EE-SPSEmet-23 Specialization Studies Focus Econometrics (0/6 – 27/9-18 ECTS-credits, elective depending on mode of study)</i></b>				
E436	Quantitative Macroeconomics	1-4	9	WS
E437	Computational Macroeconomics	1-4	9	SS
E463	Causal Machine Learning	1-4	9	WS
E464	Causal Inference	1-4	6	SS
S411	Advanced Time Series Analysis	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S415	Machine Learning in Econometrics	1-4	6	SS
S420	Statistics of Financial Markets	1-4	9	WS
S422	Advanced Microeconometrics	1-4	9	SS
<b><i>MSC-EE-SPSEcon-23 Specialization Studies Focus Economics (0/6 – 27/9-18 ECTS-credits, elective depending on mode of study)</i></b>				
E410	Fiscal Federalism	1-4	6	WS
E411	Economics of Taxation	1-4	9	SS
E412	Topics in Public Policy I	1-4	9	WS, SS
E413	Topics in Public Policy II	1-4	9	WS, SS
E414	Topics in Public Policy III	1-4	9	WS, SS
E424	Advanced Microeconomics I	1-4	9	WS
E431	Open Economy Macroeconomics	1-4	6	WS
E432	Advanced Labour Economics	1-4	6	SS



Curriculum M.Sc. European Economics

E433	Advanced Macroeconomics I	1-4	9	WS
E434	Advanced Macroeconomics II	1-4	9	SS
E435	European Economic Integration	1-4	9	SS
E441	Advanced Microeconomics II	1-4	6	SS
E450A	Game Theory and Industrial Organization	1-4	6	WS
E450B	Game Theory and Industrial Organization	1-4	9	WS
E453A	Economic Growth	1-4	6	SS
E453B	Economic Growth	1-4	9	SS
E454	Innovation and Technological Change	1-4	6	WS
E456	Behavioral Economics	1-4	6	SS
E550	Topics in Applied Economic Theory	1-4	9	WS, SS
E580	Topics in International Economic History I	1-4	9	WS, SS
E581	Topics in International Economic History II	1-4	9	WS, SS
S411	Advanced Time Series Analysis	1-4	9	WS
S413	Financial Economics	1-4	9	WS
S414	Advanced Mathematical Methods	1-4	3	WS

**MSC-EE-SPSFin-23 Specialization Studies Focus Finance (0/6 – 27/9-18 ECTS-credits, elective depending on mode of study)**

B400	Advanced Corporate Finance	1-4	9	WS
B401	Continuous-time Derivatives Pricing	1-4	9	SS
B404	Modern Issues in Finance 1	1-4	6	WS, SS
B405	Modern Issues in Finance 2	1-4	6	WS, SS
B411	Theorie der Bank	1-4	9	SS
B413	Empirical Banking	1-4	9	SS
B464	Financial Institutions in the "New Normal"	1-4	6	SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
E431	Open Economy Macroeconomics	1-4	6	WS
E475	Macro-Finance	1-4	9	WS
S411	Advanced Time Series Analysis	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S420	Statistics of Financial Markets	1-4	9	WS

**MSC-EE-SPSIEcon-23 Specialization Studies Focus International Economics (0/6 – 27/9-18 ECTS-credits, elective depending on mode of study)**

E421	International Trade I	1-4	9	SS
E422	International Trade II	1-4	9	SS
E431	Open Economy Macroeconomics	1-4	6	WS
E435	European Economic Integration	1-3	9	SS
E440	Multinational Enterprises	1-4	6	WS
E471	Empirical Topics in International Trade	1-4	9	WS

Curriculum M.Sc. European Economics

E480	Empirical Studies on Migration, Trade and Growth in the Long Run	1-4	9	WS
E580	Topics in International Economic History I	1-4	9	WS, SS
E581	Topics in International Economic History II	1-4	9	WS, SS

---

***MSC-EE-AT-23 Advanced Topics in European Economics (9 ECTS-Credits, compulsory)***

---

CM5_04	Advanced Topics in European Economics	3-4	9	WS, SS
--------	---------------------------------------	-----	---	--------

---

***MSC-FES-23 Free Elective Studies (0 – 9 ECTS-credits, elective)***

---

Within this area, students may choose freely from all modules for Master students offered by the School of Business and Economics. The modules Advanced Topics are not eligible. Students may also choose from a selected number of modules offered by other institutions. Eligible modules are listed in the Module Handbook for External Courses (Modulhandbuch für außerfachliche Veranstaltungen) ( <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> ).	1-4	3/6/9/ other, depend- ing on module	WS, SS
--	-----	---	--------

---

***MSC-EE-MT-23 Master Thesis in European Economics (24 ECTS-Credits, compulsory)***

---

MA5_04	Master Thesis in European Economics	4	24	WS, SS
--------	-------------------------------------	---	----	--------

## Curriculum M.Sc. European Management

The four-semester M.Sc. program in European Management combines elements of a classic master's degree in business administration with application-oriented management modules and prepares students for management positions in international companies of all sizes. The program can also be used as a starting point for an academic career. Through an integrated stay abroad in France (EM Strasbourg or Université Jean Moulin Lyon 3), Great Britain (University of Nottingham) or Italy (Università degli Studi di Pavia), the programme prepares students for a career in one of these countries or in a bi-national field.

### Focus Areas

The combination of a challenging business education with the option of focusing on research areas of your choosing makes this program particularly attractive. The program is structured along these research areas (specializations) which students may choose from freely. In each specialization, the students lay the foundation for intensive further academic training in the field by completing the core studies module before diving deeper into their chosen area with additional modules and, possibly, their Master's thesis.

The following focus areas are offered:

1. Industrial Organization
2. International Business
3. Marketing
4. HRM and Organization
5. Banking
6. Finance
7. International Accounting, Auditing and Corporate Governance
8. Econometrics
9. International Business Taxation
10. Managerial Accounting

### Objectives

The Master's programme is profession- and research-oriented. Graduates of the M.Sc. in European Management are able to apply different methods and methodologies of business administration, management, as well as sub-areas of economics and in their own specializations in the field of business administration. They are able to transfer these methods to questions in various fields of business and economics and to apply them to solve problems in theoretical-scientific as well as practical-professional contexts. In addition, they can independently, comprehensively and systematically evaluate scientific and professional problems from an economic perspective. They are able to combine their specialist knowledge acquired during their studies with new approaches.

Graduates are not only able to constructively examine current research in their chosen areas of specialization, but are also able to independently develop their own scientific projects and thus contribute to the discourse on the subject.

By specializing in several areas of business administration, graduates of this program are particularly qualified to develop innovative solutions, as they can analyze and evaluate tasks and problems from different professional perspectives. They are also able to review scientific practice.

Graduates of this Master's program are familiar with the academic practice of two different universities and countries due to their integrated stay abroad. Having experienced the differences in academic practices supplements the specialized knowledge the graduates have obtained in their chosen focus areas and enables them to combine the different approaches innovatively. This enables them to generate innovative solution strategies. They are able to reconstruct the differences between various academic (sub)cultures in an international work context.

The qualification goals are determined by the chosen specialization as follows.

Students,

1. who have chosen the specialization Industrial Organization, intensively debate corporate strategies and competitive processes with the help of microeconomic methods and concepts (such as game theoretical approaches). This enables students to examine complex questions of corporate and economic policy, to carry out differentiated market analyses on the basis of theoretical models and to develop recommendations for action within the framework of strategic management.
2. who have chosen the specialization International Business, understand the work of managers in a globalized business world. They can differentiate relevant theories of cross-cultural management and apply these in practice-oriented exercises and case studies as well as seminars, which emphasize regional and country-specific business practices. Students of this specialization are able to apply their acquired knowledge in practice and can utilize their competences in intercultural communication and negotiation situations as well as for team management, which enables them to take on management tasks in companies that operate internationally.
3. Who have chosen the specialization Marketing can implement complex analytical models for market analysis or research. They are able to evaluate their results in a reflective manner and to compose concrete options for action or research results from them.
4. who have chosen the specialization HRM and Organization, can analyze complex questions of the personnel area from an economic perspective on the basis of advanced theoretical models. They are able to reproduce and interpret relevant, methodically demanding empirical studies on the topic in order to develop solutions for problems in practice or to discuss their approaches in academic discourse on this basis.
5. who have chosen the specialization Banking are able to understand analytical methods and relevant concepts. They can evaluate complex banking issues on the basis of these methods and concepts. They are also able to independently develop solutions to practical banking decision-making problems.
6. who have chosen the specialization Finance can analyze questions from the areas of corporate finance, derivatives, risk management and asset management with the help of advanced theoretical methods and independently derive concrete options for action and solutions.
7. who have chosen the specialization International Accounting, Auditing and Corporate Governance are able to analyse different areas of Corporate Governance from a model-theoretical point of view and to evaluate relevant empirical findings. They can independently examine questions of international accounting and auditing and critically inspect regulatory measures, especially in these areas. Furthermore, the students can outline the theory of company valuation and the relevant institutional framework conditions in Germany and are able to identify problems of valuation practice and to develop and assess proposed solutions.
8. who have chosen the specialization Econometrics can perform complex econometric analyses. They are able to employ appropriate econometric methodology and techniques to research questions in various fields of economics and can develop recommendations based upon their findings.
9. Who have chosen the specialization International Business Taxation are able to assess the (tax) effects of different transnational corporate structures in a differentiated manner. They can independently analyze and evaluate even complex questions on the basis of empirical data. They are able to develop recommendations for action if necessary.

10. who have chosen the specialization Managerial Accounting can analyze and evaluate complex questions from the areas of controlling, corporate accounting, performance management, executive compensation, incentive systems and value-oriented corporate management with the help of microeconomic and econometric methods. Furthermore, the students are able to independently develop and evaluate recommendations for action on the basis of theoretical and empirical models and to review research results.

## Study Abroad

This program is a Double Degree program which includes an integrated stay abroad at a partner university. Consequently, it is not possible to organise an individual stay abroad either in addition to or in place of the integrated stay abroad. Students who do not wish to pursue a Double Degree program are invited to have a look at the other M.Sc. programs offered by the school.

## Educational Qualification and Language requirements

To enter the program M.Sc. European Management, a Bachelor's degree in Economics or Business Administration amounting to 180 ECTS-credits is required. We expect students to be familiar with the basic principles, theories and concepts in the field of business administration, economics and econometrics.

The instruction and examination language for this program are English and German. Thus, a very good knowledge of English (e.g. B2-Niveau, Common European Framework of Reference for Languages) and German (e.g. C1-Niveau, Common European Framework of Reference for Languages) is required. Incoming students from partner universities can study entirely in English, some modules may, however, only be available in German. German language courses are available to international students.

- **Pavia**

Italian is no formal requirement but it is strongly advised to take at least one language course in preparation of the stay abroad if the student is not yet fluent in Italian.

- **Nottingham**

Students are required to prove their English language skills with a valid (!) test, such as TOEFL or IELTS. Find more information on our website.

- **France (Strasbourg and Lyon)**

Students should have some command of the French language, B2 or C1 would be ideal. However, it is also possible to study in English – depending on your chosen specialization – in which case lower levels of French can also be accepted.

## Curriculum

The Master of Science program in European Management is completed at the University of Tübingen and one of its partner universities (see above). The part of the program which is completed at the University of Tübingen is divided into two main areas of study: Specializations and Elective Studies. To complete the program, students have to obtain a total of 120 ECTS-credits, 60 ECTS-credits at each of the two universities.

Students structure their studies along the lines of the following specialization options:

1. Industrial Organization
2. International Business
3. Marketing
4. HRM and Organization
5. Banking
6. Finance
7. International Accounting, Auditing and Corporate Governance
8. Econometrics
9. International Business Taxation
10. Managerial Accounting

There are two modes of study, depending on whether or not the Master Thesis is completed at the University of Tübingen.

**Attention:** Option A is only available for students who plan to spend a year in Pavia. Students who will spend a year in Nottingham, Lyon or Strasbourg must choose option B!

**A: Masterthesis at the Partner University**

**(Pavia)**

Students choose three Specializations from the list above, in each of which they have to complete a core module for 9 ECTS credits, for a total of 27 ECTS credits. They choose additional modules from their Specializations to obtain a minimum of 18 and a maximum of 33 ECTS credits.

In the Elective Studies, students may obtain up to 15 ECTS credits. Students may also choose not to complete this area of study at all in favour of completing more modules within the Specializations.

**B: Masterthesis at the University of Tübingen**

**(Nottingham, Lyon, Strasbourg or Pavia)**

Students may choose either one or two Specializations from the list above.

Students who have chosen two Specializations complete the core module in each of their Specializations for 9 ECTS credits, for a total of 18 ECTS credits. They have to obtain a minimum of 6 and a maximum of 9 ECTS credits by completing additional modules in their chosen Specializations. Students may complete up to 3 ECTS credits from the area of Elective Studies.

Students who have chosen one Specialization complete the core module in their Specialization for 9 ECTS credits. They have to obtain a minimum of 12 and a maximum of 18 ECTS credits by choosing additional modules from their chosen Specialization. Students may complete up to 6 ECTS credits from the area of Elective Studies.

All students are required to complete the module “Advanced Topics in European Management.”

Students are required to complete modules that are worth a total of 30 ECTS credits before they can be admitted to the Master Thesis. Furthermore, depending on the chair supervising the Master Thesis, attending a Method Seminar can be obligatory.

**PhD-Orientation**

This program can be completed with an explicit PhD-Orientation. The prerequisite for this additional entry on the certificate is (in addition to the successful completion of the program) that a minimum of 18 ECTS credits outside of the Core Studies must have been obtained in modules that are described as PhD-oriented in this handbook.

## Curriculum M.Sc. European Management (A) (Pavia)

1 <sup>st</sup> -2 <sup>nd</sup> Semester				3 <sup>rd</sup> -4 <sup>th</sup> Semester		
Core Module Specialization I	9	Specializations I-III <sup>1)</sup>	18-33	total 33	Modules at the Partner University <sup>3)</sup>	60
Core Module Specialization II	9					
Core Module Specialization III	9					
		Elective Studies <sup>2)</sup>	0-15			

1) Besides the core modules, students have to obtain a minimum of 18 and a maximum of 33 ECTS-credits by choosing modules from their Specializations.

2) In the Elective Studies, students may obtain up to 15 ECTS-credits, students may also choose not to complete this area of study at all in favour of completing more modules within the Specializations.

3) Courses at the Partner University must be chosen and completed according to that universitie`s rules and regulations. Students must avoid taking modules that are equivalent or overlap significantly with modules already taken during their first year of study. The completion of a Master Thesis at the partner university worth 24 ECTS-credits is mandatory.

The individual curriculum for the M.Sc. in European Management (A) could be designed as follows:

1 <sup>st</sup> -2 <sup>nd</sup> Semester				3 <sup>rd</sup> -4 <sup>th</sup> Semester	
<b>Core Module Specialization Marketing</b> <i>B420 Marketing-Mix Management</i>	9	<b>Core Module Specialization Banking</b> <i>B411 Theorie der Bank</i>	9	<b>Modules taken at the Partner University<sup>3)</sup></b>	<b>60</b>
<b>Core Module Specialization HRM and Organization</b> <i>B440 Personnel Economics</i>	9	<b>Specialization Banking</b> B413 Empirical Banking	9		
<b>Specialization HRM and Organization</b> B460 Sustainable Strategy	6	<b>Specialization Marketing</b> B421 eBusiness	6		
<b>Elective Studies</b> Einführung in die Wirtschafts- und Unternehmensethik (Weltethos- Institut)	6	<b>Specialization Banking</b> B414A CFA® Level I-III: Security Valuation – Chartered Financial Analysts® Preparation	6		
<b>30</b>		<b>30</b>			

This is one of many possible curriculum designs, please see student counselling if you need help designing your individual curriculum.



## Curriculum M.Sc. European Management (B) (Strasbourg, Lyon, Nottingham, Pavia)

1 <sup>st</sup> -2 <sup>nd</sup> Semester		3 <sup>rd</sup> -4 <sup>th</sup> Semester				
<b>Modules taken at the Partner University <sup>3)</sup></b>	<b>60</b>	Core Module Specialization I	9	Specializations I (& II optional) <sup>1)</sup>	6-9/ 12-18 <sup>2)</sup>	total 9/18 <sup>2)</sup>
		Core Module Specialization II <i>(optional) <sup>1)</sup></i>	0/9			
		Advanced Topics in European Management <sup>4)</sup>	9	Elective Studies <sup>2)</sup>		0-3/ 0-6 <sup>2)</sup>
Master Thesis in European Management <sup>4)</sup>						

1) Students may choose either one or two Specializations and complete the Core Module for their chosen Specialization or Specializations for 9 ECTS credits each. Depending on their choice, the number of additional ECTS credits that have to be obtained within the Specializations and Elective Studies will differ (see Footnote 2).

2) Students who have chosen two Specializations: students have to obtain a minimum of 6 and a maximum of 9 ECTS credits by completing additional modules in their chosen Specializations. Students may complete up to 3 ECTS credits from the area of Elective Studies. Students who have chosen one Specialization: students have to obtain a minimum of 12 and a maximum of 18 ECTS credits by choosing additional modules from their chosen Specialization. Students may complete up to 6 ECTS credits from the area of Elective Studies.

3) Courses at the Partner University must be chosen and completed according to that universitie's rules and regulations. Students must avoid taking modules that are equivalent or overlap significantly with modules already taken during their first year of study.

4) The Module Advanced Topics in European Management is intended to prepare students for the Master Thesis module. It is recommended that students select a course from one of their chosen focuses in this module.

The individual curriculum for the M.Sc. in European Management (B) could be designed as follows:

1 <sup>st</sup> -2 <sup>nd</sup> Semester		3 <sup>rd</sup> -4 <sup>th</sup> Semester			
Modules taken at the Partner University	60	Core Module Specialization Marketing <i>B420 Marketing - Mix Management</i>	9	CM5_05 Advanced Topics in European Management	9
		Core Module Specialization HRM and Organization <i>B440 Personnel Economics</i>	9	MA5_05 Master Thesis in European Management	24
		Specialization HRM and Organization <i>B430A Managerial Accounting and Cost Analysis</i>	6		
<b>60</b>		<b>27</b>			

This is one of many possible curriculum designs, please see student counselling if you need help designing your individual curriculum.

Curriculum M.Sc. European Management

<i>Number</i>	<i>Module Title</i>	<i>Rec. Sem</i>	<i>ECTS-credits</i>	<i>WS/SS</i>
<b>MSC-MAN-CMIO-23 Specialization Industrial Organization – Core Module (0/9 ECTS-credits, required elective)</b>				
E450B	Game Theory and Industrial Organization	1/3	9	WS
<b>MSC-MAN-IO-23 Specialization Industrial Organization (0-9 / 0-18 / 0-33 ECTS-credits, required elective)</b>				
B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS
B463	Strategy & Innovation	1-4	9	WS
B463B	Businesspläne für Startups	1-4	9	SS
E440	Multinational Enterprises	1-4	6	WS
E441	Advanced Microeconomics II	1-4	6	SS
E453A	Economic Growth	1-4	6	SS
E453B	Economic Growth	1-4	9	SS
E454	Innovation and Technological Change	1-4	6	WS
E456	Behavioral Economics	1-4	6	SS
E550	Topics in Applied Economic Theory	1-4	9	WS, SS
<b>MSC-MAN-CMIB-23 Specialization International Business – Core Module (0/9 ECTS-credits, required elective)</b>				
B490	Managing Across Cultures	2/4	9	SS
<b>MSC-MAN-IB-23 Specialization International Business (0-9 / 0-18 / 0-33 ECTS-credits, required elective)</b>				
B441	Comparative Employment Relations	1-4	6	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS
B493A	Doing Business in Selected Countries and World Regions	1-4	6	SS
B493B	Doing Business in Africa	1-4	6	WS
B495	Current Issues in International Business I	1-4	6	WS, SS
B496	Current Issues in International Business II	1-4	6	WS, SS
B497	Current Issues in International Business III	1-4	6	WS, SS
WE4_01	Introduction to Business Ethics	1-4	6	WS, SS
<b>MSC-MAN-CMMA-23 Specialization Marketing – Core Module (0/9 ECTS-credits, required elective)</b>				
B420	Marketing-Mix Management	1/3	9	WS
<b>MSC-MAN-MA-23 Specialization Marketing (0-9 / 0-18 / 0-33 ECTS-credits, required elective)</b>				

Curriculum M.Sc. European Management

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B421	eBusiness	1-4	6	SS
B425	Data Science and Marketing 1	1-4	6	WS, SS
B426	Data Science and Marketing 2	1-4	6	WS, SS
B463	Strategy & Innovation	1-4	9	WS
B463B	Businesspläne für Startups	1-4	9	SS
B465	Specialization in Economic Research	1-4	6	WS or SS
E454	Innovation and Technological Change	1-4	6	WS

**MSC-MAN-CMHRM-23 Specialization HRM and Organization – Core Module (0/9 ECTS-credits, required elective)**

B440	Personnel Economics	1/3	9	WS
------	---------------------	-----	---	----

**MSC-MAN-HRM-23 Specialization HRM and Organization (0-9 / 0-18 / 0-33 ECTS-credits, required elective)**

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS
B432A	Organizational Economics	1-4	6	SS
B432B	Organizational Economics	1-4	9	SS
B441	Comparative Employment Relations	1-4	6	SS
B460	Sustainable Strategy	1-4	6	WS
B461	Empirical Studies in Sustainable Strategy	1-4	6	WS
E456	Behavioral Economics	1-4	6	SS
S422	Advanced Microeconometrics	1-4	9	SS

**MSC-MAN-CMBNK-23 Specialization Banking – Core Module (0/9 ECTS-credits, required elective unkte)**

B411	Theorie der Bank	2/4	9	SS
B413	Empirical Banking	2/4	9	SS

**MSC-MAN-BNK-23 Specialization Banking (0-9 / 0-18 / 0-33 ECTS-credits, required elective)**

B411	Theorie der Bank	1-4	9	SS
B412	Bank Management	1-4	6	WS
B413	Empirical Banking	1-4	9	SS
B414A	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-4	6	SS
B414B	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-4	12	SS
B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS

Curriculum M.Sc. European Management

B417	Sustainable Finance	1-4	6	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B465	Specialization in Economic Research	1-4	6	WS or SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
B480B	Unternehmenspublizität und Märkte B	1-4	9	WS
B512	CFA Colloquium	1-4	6	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S416	Topics in Financial Econom[etr]ics	1-4	6	WS or SS
S420	Statistics of Financial Markets	1-4	9	WS

**MSC-MAN-CMFIN-23 Specialization Finance – Core Module (0/9 ECTS-credits, required elective)**

B400	Advanced Corporate Finance	1/3	9	WS
B401	Continuous-time Derivatives Pricing	2/4	9	SS
S412	Empirical Asset Pricing	2/4	9	SS

**MSC-MAN-FIN-23 Specialization Finance (0-9 / 0-18 / 0-33 ECTS-credits, required elective)**

B400	Advanced Corporate Finance	1-4	9	WS
B401	Continuous-time Derivatives Pricing	1-4	9	SS
B404	Modern Issues in Finance 1	1-4	6	WS, SS
B405	Modern Issues in Finance 2	1-4	6	WS, SS
B413	Empirical Banking	1-4	9	SS
B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S416	Topics in Financial Econom[etr]ics	1-4	6	WS or SS
S420	Statistics of Financial Markets	1-4	9	WS

**MSC-MAN-CMIACC-23 Specialization International Accounting, Auditing and Corporate Governance – Core Module (0/9 ECTS-credits, required elective)**

B480B	Unternehmenspublizität und Märkte B	1/3	9	WS
-------	-------------------------------------	-----	---	----

**MSC-MAN-IACC-23 Specialization International Accounting, Auditing and Corporate Governance (0-9 / 0-18 / 0-33 ECTS-credits, required elective)**

B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS
B481A	Sustainable Governance A	1-4	6	SS

B481B	Sustainable Governance B	1-4	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS

***MSC-MAN-CMEMET-23 Specialization Econometrics – Core Module (0/9 ECTS-credits, required elective)***

S411	Advanced Time Series Analysis	1/3	9	WS
S422	Advanced Microeconometrics	2/4	9	SS

***MSC-MAN-EMET-23 Specialization Econometrics (0-9 / 0-18 / 0-33 ECTS-credits, required elective)***

S411	Advanced Time Series Analysis	1-4	9	WS
S415	Machine Learning in Econometrics	1-4	6	SS
S420	Statistics of Financial Markets	1-4	9	WS
S422	Advanced Microeconometrics	1-4	9	SS

***MSC-MAN-CMIBT-23 Specialization International Business Taxation – Core Module (0/9 ECTS-credits, required elective)***

B450A	Taxes and Business Strategy	2/4	9	SS
-------	-----------------------------	-----	---	----

***MSC-MAN-IBT-23 Specialization International Business Taxation (0-9 / 0-18 / 0-33 ECTS-credits, required elective)***

B451	Unternehmensbesteuerung	1-4	9	WS
B452	Internationale Unternehmensbesteuerung	1-4	6	SS
B455	Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer	1-4	9	WS
B457	M&A Tax	1-4	6	SS
B480A	Unternehmenspublizität und Märkte A	1-4	6	WS
B481A	Sustainable Governance A	1-4	6	SS
B481B	Sustainable Governance B	1-4	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS

***MSC-MAN-CMMACC-23 Specialization Managerial Accounting – Core Module (0/9 ECTS-credits, required elective)***

B430B	Managerial Accounting and Cost Analysis	1/3	9	WS
-------	---	-----	---	----

***MSC-MAN-MACC\_23 Specialization Managerial Accounting (0-9 / 0-18 / 0-33 ECTS-credits, required elective)***

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B432A	Organizational Economics	1-4	6	SS
B432B	Organizational Economics	1-4	9	SS

Curriculum M.Sc. European Management

B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-4	6	WS
B440	Personnel Economics	1-4	9	WS
B480B	Unternehmenspublizität und Märkte B	1-4	9	WS

***MSC-FES-23 Free Elective Studies (0-18 ECTS-credits depending on mode of study)***

---

Within this area, students may choose freely from all modules for Master students offered by the School of Business and Economics. The modules Advanced Topics are not eligible. Students may also choose from a selected number of modules offered by other institutions. Eligible modules are listed in the Module Handbook for External Courses (Modulhandbuch für außerfachliche Veranstaltungen) ( <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> ).	1-4	3/6/9/ X, de- pend- ing on mod- ule	WS, SS
--	-----	--	--------

***MSC-EM-AT-23 Advanced Topics in European Management (9 ECTS-credits, compulsory)***

---

CM5_05	Advanced Topics in European Management		9	WS, SS
--------	--	--	---	--------

***MSC-EM-MT-23 Master Thesis in European Management (24 ECTS-credits, compulsory)***

---

MA5_05	Master Thesis in European Management		24	WS, SS
--------	--------------------------------------	--	----	--------

# Studienplan M.Sc. General Management

Der dreisemestrige M.Sc.-Studiengang General Management verbindet Elemente eines klassischen Masters der Betriebswirtschaftslehre mit anwendungsbezogenen Management-Modulen und bereitet auf Leitungspositionen in Unternehmen aller Größen vor. Ebenso besteht die Möglichkeit, das Programm als Ausgangspunkt für eine wissenschaftliche Karriere zu nutzen.

Durch die von Studienbeginn an weitreichenden Wahlmöglichkeiten setzen die Studierenden selbstständig Schwerpunkte und Prioritäten und erhalten so eine maßgeschneiderte Ausbildung gemäß ihren persönlichen und wissenschaftlichen Präferenzen.

## Vertiefungsbereiche

Die Kombination einer anspruchsvollen betriebswirtschaftlichen Ausbildung mit der Möglichkeit der individuellen Schwerpunktsetzung macht diesen Studiengang besonders attraktiv. Um den Studierenden selbst gewählte Spezialisierungen zu ermöglichen, ist der Studiengang nach wählbaren Vertiefungsbereichen gegliedert. Diese können von den Studierenden weitgehend frei kombiniert werden, die Wahl eines der Vertiefungsbereiche 1-4 (Industrial Organization, International Business, Marketing oder HRM and Organization) ist jedoch verpflichtend. In jedem Vertiefungsbereich setzen sich die Studierenden in einem Grundlagenmodul grundlegend mit der Teildisziplin auseinander und legen so den Grundstein für die intensive fachwissenschaftliche Auseinandersetzung mit dem gewählten Vertiefungsbereich im weiteren Verlauf des Studiums.

1. **Industrial Organization**
2. **International Business**
3. **Marketing**
4. **HRM and Organization**
5. Banking
6. Finance
7. International Accounting, Auditing and Governance
8. Econometrics
9. International Business Taxation
10. Managerial Accounting

## Qualifikationsziele

Der Masterstudiengang ist professions- und forschungsorientiert. Absolventinnen und Absolventen des M.Sc. in General Management verstehen Methoden und Methodologien der Betriebswirtschaftslehre, des Managements, in Teilbereichen der Volkswirtschaftslehre sowie in den von ihnen selbst gesetzten fachlichen Vertiefungsbereichen im Bereich der Betriebswirtschaftslehre. Sie sind in der Lage, diese Kenntnisse auf Fragestellungen in verschiedenen betriebs- und wirtschaftswissenschaftlichen Bereichen zu übertragen und können diese sowohl in theoretisch-wissenschaftlichen als auch in praktisch-beruflichen Kontexten zur Problemlösung anwenden. Sie können darüber hinaus neuartige und offene wissenschaftliche und unternehmenspraktische Problemstellungen aus einer wirtschaftswissenschaftlichen Perspektive selbständig, umfassend und systematisch bewerten. Sie können ihre im Studium erworbenen Fachkenntnisse zu neuen Herangehensweisen weiterentwickeln.

Absolventinnen und Absolventen sind in die Lage, konstruktiv aktuelle Forschung in den von ihnen gewählten Schwerpunkten einzuschätzen und können darüberhinausgehend eigene wissenschaftliche Projekte selbstständig entwickeln und sich so in den Fachdiskurs einzubringen.

Durch die Spezialisierung auf mehrere Teilgebiete der Betriebswirtschaftslehre sind Absolventen/-innen des Studiengangs besonders dazu befähigt, innovative Lösungsansätze zu entwerfen, da sie Aufgabenstellungen aus unterschiedlichen fachlichen Blickwinkeln analysieren, bewerten und fachwissenschaftliche Praxis hinterfragen können.

Es folgen die Qualifikationsziele, die mit der Wahl des jeweiligen Vertiefungsbereichs verbunden sind.



Studierende,

1. die den Vertiefungsbereich Industrial Organization gewählt haben, bewerten mit Hilfe mikroökonomischer Methoden und Konzepte (wie zum Beispiel spieltheoretische Ansätzen) Unternehmensstrategien und Wettbewerbsprozesse. Dadurch sind Studierende des Vertiefungsbereichs insbesondere befähigt, komplexe unternehmens- und wirtschaftspolitischen Fragestellungen zu analysieren und auf der Basis theoretischer Modelle differenzierte Marktanalysen zu generieren sowie im Rahmen des strategischen Managements Handlungsempfehlungen zu entwerfen.
2. die den Vertiefungsbereich International Business gewählt haben, verstehen, basierend auf relevanten Theorien des Cross-Cultural Managements und durch praxisbezogene Übungen und Fallbeispiele sowie Seminare, die auf regional- und landesspezifische Handlungsweisen ausgerichtet sind, die Arbeit als Manager/-in in einer globalisierten Geschäftswelt. Studierende des Vertiefungsbereichs sind in der Lage, die erworbenen Kenntnisse in interkulturellen Kommunikations- und Verhandlungssituationen sowie im Teammanagement anzuwenden, was sie befähigt, Führungsaufgaben in international agierenden Unternehmen zu übernehmen.
3. die den Vertiefungsbereich Marketing gewählt haben, können komplexe analytische Modelle zur Marktanalyse bzw. -forschung implementieren sowie ihre Ergebnisse reflektiert bewerten. Sie können daraus konkrete Handlungsoptionen oder Forschungsergebnisse generieren.
4. die den Vertiefungsbereich HRM and Organization gewählt haben, können komplexe Fragen aus dem Personalbereich aus ökonomischer Perspektive auf Basis fortgeschrittener theoretischer Modelle analysieren und einschlägige, methodisch anspruchsvolle empirische Studien zum Thema nachvollziehen und interpretieren, um auf dieser Basis Lösungsansätze für Probleme in der Praxis zu entwickeln bzw. diese im akademischen Diskurs zu diskutieren.
5. die den Vertiefungsbereich Banking gewählt haben, können analytische Methoden und einschlägige Konzepte verstehen und diese nutzen, um komplexe bankwirtschaftliche Fragestellungen zu bewerten. Sie sind in der Lage selbstständig Lösungen bankpraktischer Entscheidungsprobleme entwickeln.
6. die den Vertiefungsbereich Finance gewählt haben, können mit Hilfe fortgeschrittener theoretischer Modelle Fragestellungen aus dem Bereich Corporate Finance, Derivative, Risikomanagement und Asset Management analysieren und selbstständig konkrete Handlungsoptionen und Lösungsansätze entwickeln.
7. die den Vertiefungsbereich International Accounting, Auditing and Corporate Governance gewählt haben, sind in der Lage, verschiedene Bereiche der Corporate Governance aus modelltheoretischer Sicht zu analysieren und einschlägige empirische Befunde zu bewerten. Sie können Fragestellungen der Internationalen Rechnungslegung und Wirtschaftsprüfung eigenständig untersuchen und Regulierungsmaßnahmen insbesondere in diesen Bereichen beurteilen. Weiterhin können die Studierenden die Theorie der Unternehmensbewertung und die einschlägigen institutionellen Rahmenbedingungen in Deutschland skizzieren und sind in der Lage, Probleme der Bewertungspraxis zu identifizieren und Lösungsvorschläge zu generieren und zu beurteilen.
8. die den Vertiefungsbereich Econometrics gewählt haben, können ökonometrische Methoden reflektiert auf konkrete Fragestellungen aus unterschiedlichen Bereichen der Wirtschaftswissenschaft transferieren. Sie sind in der Lage Empfehlungen auf Basis ihrer Ergebnisse ableiten.
9. die den Vertiefungsbereich International Business Taxation gewählt haben, sind in der Lage, die (steuerlichen) Auswirkungen unterschiedlicher transnationaler Unternehmensstrukturen differenziert zu beurteilen und können auch komplexe Fragestellungen selbstständig anhand empirischer Daten analysieren und bewerten, um gegebenenfalls Handlungsempfehlungen generieren zu können.
10. die den Vertiefungsbereich Managerial Accounting gewählt haben, können mit Hilfe mikroökonomischer und ökonometrischer Methoden komplexe Fragestellungen aus den Bereichen Controlling,

Unternehmensrechnung, Performance Management, Vorstandsvergütung, Anreizsysteme und wertorientierte Unternehmenssteuerung analysieren und bewerten. Weiterhin sind die Studierenden in der Lage, auf Basis theoretischer und empirischer Modelle selbstständig Handlungsempfehlungen zu erarbeiten und zu beurteilen sowie Forschungsergebnisse einzuschätzen.

### **Auslandsaufenthalte**

Im Gegensatz zu dem inhaltlich verwandten viersemestrigen Studiengang M.Sc. in European Management ist im M.Sc. in General Management kein integrierter Auslandsaufenthalt vorgesehen. Studieninteressierten, die einen Auslandsaufenthalt im Master anstreben, wird daher empfohlen, sich über die Masterstudiengänge M.Sc. in European Management und M.Sc. in International Business zu informieren. Sollte ein Auslandsaufenthalt im M.Sc. in General Management angestrebt werden, so ist hierfür das 3. Semester zu empfehlen. Abhängig von der individuellen Studienplanung und dem Studienangebot im Ausland können Studienverzögerungen aber nicht ausgeschlossen werden.

### **Fachliche und sprachliche Voraussetzungen**

Voraussetzung für die Aufnahme des Studiums im M.Sc. General Management ist ein Bachelorabschluss in BWL oder VWL, vorzugsweise mit einem Umfang von 210 ECTS-Punkten. Bei Vorliegen eines Bachelorabschlusses mit 180 ECTS-Punkte verlängert sich die Regelstudienzeit auf vier Semester, da Leistungen im Umfang von 30 zusätzliche ECTS-Punkten im Laufe des Masterstudiums erbracht werden müssen, um den Abschluss zu erlangen. Die zusätzlich belegten Module fließen jedoch nicht in die Endnote des M.Sc.-Abschlusses ein.

Kenntnisse der grundlegenden Begrifflichkeiten, Theorien und Modelle der Wirtschaftswissenschaft mit besonderem Bezug auf die planerischen und organisatorischen Prozesse innerhalb eines einzelnen Betriebs werden vorausgesetzt. Hierbei wird insbesondere Wert auf Vorkenntnisse im internen und externen Rechnungswesen, der Finanzierungs- und Investitionstheorie sowie in Mathematik, Statistik und Ökonometrie Wert gelegt. Die Fähigkeit, verschiedene Teilbereiche der Betriebswirtschaftslehre gegeneinander abzugrenzen, wird vorausgesetzt.

Die Studien- und Prüfungssprache im Masterstudiengang General Management sind Englisch und Deutsch. Lehrveranstaltungen und Prüfungen finden häufig in englischer Sprache statt, gleichermaßen ist einschlägige Fachliteratur oft in englischer Sprache verfasst. Es wird vorausgesetzt, dass die Studierenden über sehr gute deutsche Sprachkenntnisse (etwa C1 nach dem Europäischen Referenzrahmen) sowie sehr gute englische Sprachkenntnisse (etwa B2 nach dem Europäischen Referenzrahmen) verfügen. Beratung insbesondere zu den deutschen Sprachkenntnissen für internationale Bewerber erhalten Sie bei der Zulassungsstelle für internationale Studierende.

### **Struktur des Studiengangs**

Der Masterstudiengang in General Management ist in die Vertiefungsbereiche und den Wahlbereich unterteilt. Die Studierenden wählen drei Vertiefungsbereiche aus der oben vorgestellten Liste aus, von denen mindestens einer Industrial Organization, International Business, Marketing oder HRM and Organization sein muss. Zusätzlich belegen die Studierenden das Modul „Advanced Topics in General Management,“ das der Vorbereitung auf die Anfertigung der Masterarbeit dient. Im Rahmen dieses Moduls wählen die Studierenden eine Veranstaltung, die einem der von Ihnen gewählten Vertiefungsbereiche entspricht.

In jedem Vertiefungsbereich müssen Studierende ein Grundlagenmodul im Umfang von 9 ECTS-Credits wählen. Darüber hinaus müssen in den drei Vertiefungsbereichen zwischen 12 und 30 ECTS-Credits an weiteren Modulen belegt werden.

Im Modul Advanced Topics in General Management werden 9 ECTS-Punkte erworben.

Im Wahlbereich können Module im Umfang von maximal 18 ECTS-Punkten belegt werden.

Insgesamt müssen in diesem Studiengang 90 ECTS-Punkte erworben werden, 24 davon entfallen auf die Masterarbeit.

### Masterarbeit

Voraussetzung für die Zulassung zur Masterarbeit ist der Erwerb von mindestens 30 ECTS-Punkten im Rahmen der Vertiefungsbereiche. Abhängig davon, an welchem Lehrstuhl die Masterarbeit angefertigt wird, kann der Besuch eines Methodenseminars als Voraussetzung für die Annahme zur Masterarbeit vorgeschrieben sein. Dieses Seminar muss unter Umständen, beispielsweise bei Auslandsaufenthalt im zweiten Studienjahr, bereits im ersten Studienjahr belegt werden.

### PhD-Orientierung

Der Studiengang M.Sc. in General Management kann auch in einer Variante mit expliziter PhD-Orientierung absolviert werden. Voraussetzung für die Eintragung des Zusatzes „mit PhD-Orientierung“ auf dem Zeugnis ist, dass mindestens insgesamt 18 der außerhalb der Grundlagenmodule erworbenen ECTS-Punkte aus Modulen stammen müssen, die im Modulhandbuch explizit als PhD-orientiert gekennzeichnet sind.

## Studienverlaufsplan M.Sc. General Management

1.-3. Semester						
Vertiefungsbereich I Grundlagenmodul <i>Industrial Organization oder Marketing oder Int. Business oder HRM and Organization</i>	9	Vertiefungsbereiche I-III <sup>1)</sup>	12-30	insg. 30	Advanced Topics in General Management <sup>3)</sup>	9
Vertiefungsbereich II Grundlagenmodul	9				Master Thesis in General Management <sup>4)</sup>	24
Vertiefungsbereich III Grundlagenmodul	9					

1) Vertiefungsbereiche: Sie müssen neben den Grundlagenmodulen weitere Module aus den gewählten Vertiefungsbereichen im Umfang von 12 - 30 ECTS-Punkten belegen.

2) Wahlbereich: Sie können Module im Umfang von 0 - 18 ECTS-Punkten belegen.

3) Das Modul "Advanced Topics in General Management" dient der Vorbereitung der Masterarbeit. Es wird empfohlen, im Rahmen dieses Moduls eine Veranstaltung zu belegen, die einem der bereits gewählten Vertiefungsbereiche zugeordnet ist.

4) Die Masterarbeit kann bei individueller Belegung bereits im zweiten Semester geschrieben werden. Bei Interesse empfehlen wir zur Abstimmung ein persönliches Gespräch bei der Studienfachberatung und Rücksprache mit dem Für Studierende, die 30 zusätzliche ECTS-Punkte absolvieren müssen, da sie einen B.Sc.-Abschluss mit 180 ECTS-Credits absolviert haben, verlängert sich das Studium um ein Semester. Die zusätzlichen 30 ECTS-Punkte können in allen M.Sc.-Modulen sowie in den Modulen des 3. Bachelorjahres erworben werden, sofern diese Module (oder äquivalente Module oder Veranstaltungen) noch nicht im Rahmen des B.Sc.-Studiums belegt worden sind.

Ein Auslandsstudium kann im dritten Fachsemester absolviert werden, kann jedoch zu einer Verlängerung der Studienzzeit führen. Bitte lassen Sie sich hierzu unbedingt beraten und beachten Sie die Bewerbungsfristen beim Dezernat für internationale Angelegenheiten für die Austauschprogramme.

Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in General Management daher wie folgt aussehen:

1. Semester		2. Semester		3. Semester	
<b>Vertiefungsbereich Marketing Grundlagenmodul</b> B420 Marketing - Mix Management	9	<b>Vertiefungsbereich Banking Grundlagenmodul</b> B411 Theorie der Bank	9	<b>Vertiefungsbereich HRM and Organization</b> B461 Empirical Studies in Sustainable Strategy	6
<b>Vertiefungsbereich HRM and Organization Grundlagenmodul</b> B440 Personnel Economics	9	<b>CM5_06 Advanced Topics in General Management</b>	9	<b>MA5_06 Master Thesis in General Management</b>	24
<b>Vertiefungsbereich HRM and Organization</b> B460 Sustainable Strategy	6	<b>Vertiefungsbereich Marketing</b> B421 eBusiness	6		
<b>Wahlbereich</b> Einführung in die Wirtschafts- und Unternehmensethik (Weltethos-Institut)	6	<b>Vertiefungsbereich Banking</b> B416 Rechnungslegung von Finanzinstrumenten	6		
<b>30</b>		<b>30</b>		<b>30</b>	

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

Studienplan M.Sc. General Management

<i>Number</i>	<i>Module Title</i>	<i>Rec. Sem</i>	<i>ECTS-credits</i>	<i>WS/SS</i>
<b>MSC-MAN-CMIO-23 Vertiefungsbereich Industrial Organization - Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
E450B	Game Theory and Industrial Organization	1	9	WS
<b>MSC-MAN-IO-23 Vertiefungsbereich Industrial Organization (0 – 30 ECTS-Punkte, Wahlpflicht)</b>				
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B463	Strategy & Innovation	1-3	9	WS
B463B	Businesspläne für Startups	1-3	9	SS
E440	Multinational Enterprises	1-3	6	WS
E441	Advanced Microeconomics II	1-3	6	SS
E453A	Economic Growth	1-3	6	SS
E453B	Economic Growth	1-3	9	SS
E454	Innovation and Technological Change	1-3	6	WS
E456	Behavioral Economics	1-3	6	SS
E550	Topics in Applied Economic Theory	1-3	9	WS, SS
<b>MSC-MAN-CMIB-23 Vertiefungsbereich International Business – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
B490	Managing Across Cultures	2	9	SS
<b>MSC-MAN-IB-23 Vertiefungsbereich International Business (0 – 30 ECTS-Punkte, Wahlpflicht)</b>				
B441	Comparative Employment Relations	1-3	6	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS
B483	Empirical Accounting Research	1-3	6	WS or SS
B493A	Doing Business in Selected Countries and World Regions	1-3	6	SS
B493B	Doing Business in Africa	1-3	6	WS
B495	Current Issues in International Business I	1-3	6	WS, SS
B496	Current Issues in International Business II	1-3	6	WS, SS
B497	Current Issues in International Business III	1-3	6	WS, SS
WE4_01	Introduction to Business Ethics	1-3	6	WS, SS
<b>MSC-MAN-CMMA-23 Vertiefungsbereich Marketing – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
B420	Marketing-Mix Management	1	9	WS
<b>MSC-MAN-MA-23 Vertiefungsbereich Marketing (0 – 30 ECTS-Punkte, Wahlpflicht)</b>				
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS

## Studienplan M.Sc. General Management

B417	Sustainable Finance	1-3	6	SS
B421	eBusiness	1-3	6	SS
B425	Data Science and Marketing 1	1-3	6	WS, SS
B426	Data Science and Marketing 2	1-3	6	WS, SS
B463	Strategy & Innovation	1-3	9	WS
B463B	Businesspläne für Startups	1-3	9	SS
B465	Specialization in Economic Research	1-3	6	WS or SS
E454	Innovation and Technological Change	1-3	6	WS

### **MSC-MAN-CMHRM-23 Vertiefungsbereich HRM and Organization – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B440	Personnel Economics	1	9	WS
------	---------------------	---	---	----

### **MSC-MAN-HRM-23 Vertiefungsbereich HRM and Organization (0 – 30 ECTS-Punkte, Wahlpflicht)**

B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B432A	Organizational Economics	1-4	6	SS
B432B	Organizational Economics	1-4	9	SS
B441	Comparative Employment Relations	1-3	6	SS
B460	Sustainable Strategy	1-3	6	WS
B461	Empirical Studies in Sustainable Strategy	1-3	6	WS
E456	Behavioral Economics	1-3	6	SS
S422	Advanced Microeconometrics	1-3	9	SS

### **MSC-MAN-CMBNK-23 Vertiefungsbereich Banking – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B411	Theorie der Bank	2	9	SS
B413	Empirical Banking	2	9	SS

### **MSC-MAN-BNK-23 Vertiefungsbereich Banking (0 – 30 ECTS-Punkte, Wahlpflicht)**

B411	Theorie der Bank	1-3	9	SS
B412	Bank Management	1-3	6	WS
B413	Empirical Banking	1-3	9	SS
B414A	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	6	SS
B414B	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-3	12	SS
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS

Studienplan M.Sc. General Management

B465	Specialization in Economic Research	1-3	6	WS or SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
B480B	Unternehmenspublizität und Märkte B	1-3	9	WS
B512	CFA Colloquium	1-3	6	WS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S416	Topics in Financial Econom[etr]ics	1-3	6	WS or SS
S420	Statistics of Financial Markets	1-3	9	WS

**MSC-MAN-CMFIN-23 Vertiefungsbereich Finance – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B400	Advanced Corporate Finance	1	9	WS
B401	Continuous-time Derivatives Pricing	2	9	SS
S412	Empirical Asset Pricing	2	9	SS

**MSC-MAN-FIN-23 Vertiefungsbereich Finance (0 – 30 ECTS-Punkte, Wahlpflicht)**

B400	Advanced Corporate Finance	1-3	9	WS
B401	Continuous-time Derivatives Pricing	1-3	9	SS
B404	Modern Issues in Finance 1	1-3	6	WS, SS
B405	Modern Issues in Finance 2	1-3	6	WS, SS
B413	Empirical Banking	1-3	9	SS
B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B464	Financial Institutions in the "New Normal"	1-3	6	SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S416	Topics in Financial Econom[etr]ics	1-3	6	WS or SS
S420	Statistics of Financial Markets	1-3	9	WS

**MSC-MAN-CMIACC-23 Vertiefungsbereich International Accounting, Auditing and Corporate Governance – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B480B	Unternehmenspublizität und Märkte B	1	9	WS
-------	-------------------------------------	---	---	----

**MSC-MAN-IACC-23 Vertiefungsbereich International Accounting, Auditing and Corporate Governance (0 – 30 ECTS-Punkte, Wahlpflicht)**

B430A	Managerial Accounting and Cost Analysis	1-3	6	WS
B430B	Managerial Accounting and Cost Analysis	1-3	9	WS
B481A	Sustainable Governance A	1-3	6	SS
B481B	Sustainable Governance B	1-3	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS

B483	Empirical Accounting Research	1-3	6	WS or SS
------	-------------------------------	-----	---	-------------

**MSC-MAN-CMEMET-23 Vertiefungsbereich Econometrics – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

S411	Advanced Time Series Analysis	1	9	WS
S422	Advanced Microeconometrics	2	9	SS

**MSC-MAN-EMET-23 Vertiefungsbereich Econometrics (0 – 30 ECTS-Punkte, Wahlpflicht)**

S411	Advanced Time Series Analysis	1-3	9	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S420	Statistics of Financial Markets	1-3	9	WS
S422	Advanced Microeconometrics	1-3	9	SS

**MSC-MAN-CMIBT-23 Vertiefungsbereich International Business Taxation – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B450A	Taxes and Business Strategy	2	9	SS
-------	-----------------------------	---	---	----

**MSC-MAN-IBT-23 Vertiefungsbereich International Business Taxation (0 – 30 ECTS-Punkte, Wahlpflicht)**

B451	Unternehmensbesteuerung	1-3	9	WS
B452	Internationale Unternehmensbesteuerung	1-3	6	SS
B455	Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer	1-3	9	WS
B457	M&A Tax	1-3	6	SS
B480A	Unternehmenspublizität und Märkte A	1-3	6	WS
B481A	Sustainable Governance A	1-3	6	SS
B481B	Sustainable Governance B	1-3	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-3	6	WS
B483	Empirical Accounting Research	1-3	6	WS or SS

**MSC-MAN-CMMAACC-23 Vertiefungsbereich Managerial Accounting – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B430B	Managerial Accounting and Cost Analysis	1	9	WS
-------	---	---	---	----

**MSC-MAN-MACC\_23 Vertiefungsbereich Managerial Accounting (0 – 30 ECTS-Punkte, Wahlpflicht)**

B416	Rechnungslegung von Finanzinstrumenten	1-3	6	WS
B417	Sustainable Finance	1-3	6	SS
B432A	Organizational Economics	1-3	6	SS
B432B	Organizational Economics	1-3	9	SS
B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-3	6	WS
B440	Personnel Economics	1-3	9	WS
B480B	Unternehmenspublizität und Märkte B	1-3	9	WS



**MSC-FES-23 Freier Wahlbereich (0-18 ECTS-Punkte, Wahl)**

In diesem Bereich sind alle Mastermodule des Fachbereichs Wirtschaftswissenschaft wählbar. Ausgenommen sind die Module Advanced Topics. Zusätzlich können ausgewählte Module anderer Institutionen gemäß dem Modulhandbuch für außerfachliche Veranstaltungen ( <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> ) angerechnet werden.	1-3	3/6/9/X, je nach Modul	WS, SS
---	-----	------------------------------	--------

**MSC-GM-AT-23 Advanced Topics in General Management (9 ECTS-Punkte, Pflicht)**

CM5_06 Advanced Topics in General Management	2-3	9	WS, SS
--	-----	---	--------

**MSC-GM-MT-23 Master Thesis in General Management (24 ECTS-Punkte, Pflicht)**

MA5_06 Master Thesis in General Management	3	24	WS, SS
--	---	----	--------

# Studienplan M.Sc. International Business

Der viersemestrige M.Sc.-Studiengang International Business verbindet Elemente eines klassischen Masters der Betriebswirtschaft mit anwendungsbezogenen Management-Modulen und bereitet auf Leitungspositionen in internationalen Unternehmen aller Größen vor. Ebenso besteht die Möglichkeit, das Programm als Ausgangspunkt für eine wissenschaftliche Karriere zu nutzen. Durch den integrierten Auslandsaufenthalt an bis zu zwei verschiedenen renommierten Partneruniversitäten im asiatischen bzw. afrikanischen Raum verschränkt mit einer anspruchsvollen Ausbildung in Sprache und Kultur einer gewählten Zielregion, bereitet der Studiengang besonders auf ein internationales Tätigkeitsfeld vor. Es gibt die Möglichkeit diesen Studiengang als Double Degree Studiengang (Rikkyo) zu absolvieren und so einen zweiten Masterabschluss an einer der Partnerinstitutionen zu erwerben.

## Vertiefungsbereiche

Die Kombination einer anspruchsvollen betriebswirtschaftlichen Ausbildung mit der Möglichkeit der individuellen Schwerpunktsetzung macht diesen Studiengang besonders attraktiv. Um den Studierenden selbst gewählte Spezialisierungen zu ermöglichen, ist der Studiengang nach wählbaren Vertiefungsbereichen gegliedert. Diese können von den Studierenden weitgehend frei kombiniert werden. In jedem Vertiefungsbereich setzen sich die Studierenden in einem Grundlagenmodul grundlegend mit der Teildisziplin auseinander und legen so den Grundstein für die intensive fachwissenschaftliche Auseinandersetzung mit dem gewählten Vertiefungsbereich im weiteren Verlauf des Studiums.

1. Industrial Organization
2. International Business
3. Marketing
4. HRM and Organization
5. Banking
6. Finance
7. International Accounting, Auditing and Governance
8. Econometrics
9. International Business Taxation
10. Managerial Accounting

## Qualifikationsziele

Der Masterstudiengang ist professions- und forschungsorientiert. Absolventinnen und Absolventen des M.Sc. in International Business können die Methoden und Methodologien der Betriebswirtschaftslehre, des Managements, in Teilbereichen der Volkswirtschaftslehre sowie in den von ihnen selbst gesetzten fachlichen Vertiefungsbereichen im Bereich der Betriebswirtschaftslehre anwenden. Sie sind in der Lage, diese Kenntnisse auf Fragestellungen in verschiedenen betriebs- und wirtschaftswissenschaftlichen Bereichen zu übertragen und sowohl in theoretisch-wissenschaftlichen als auch in praktisch-beruflichen Kontexten Problemlösungen zu entwickeln. Sie können darüber hinaus neuartige und offene wissenschaftliche und berufliche Sachverhalte und Problemstellungen aus einer wirtschaftswissenschaftlichen Perspektive selbständig, umfassend und systematisch bewerten und ihre im Studium erworbenen Fachkenntnisse zu neuen Herangehensweisen verknüpfen.

Die explizit internationale Ausrichtung dieses Masterstudiengangs durch einen integrierten einjährigen Auslandsaufenthalt bzw. einen Doppelmasterabschluss (Rikkyo) sowie die je nach Weltregion angebotenen Module zu Sprache und Kultur befähigen Absolventen/-innen, sich interkultureller Unterschiede bewusst zu werden und sich sprachlich korrekt auszudrücken. Darüber hinaus sind sie in der Lage, selbstständig und mit einem hohen Maß an interkultureller Kompetenz praktische Herausforderungen in globalisierten und internationalen agierenden Unternehmen einzuschätzen und Lösungsansätze zu entwickeln.

Absolventinnen und Absolventen sind in die Lage, konstruktiv aktuelle Forschung in den von ihnen gewählten Schwerpunkten zu kritisieren und darüberhinausgehend auch eigene wissenschaftliche Projekte zu entwickeln und sich so in den Fachdiskurs einzubringen.

Durch die Spezialisierung auf mehrere Teilgebiete der Betriebswirtschaftslehre sind Absolventen/-innen des Studiengangs besonders dazu befähigt, innovative Lösungsansätze zu erarbeiten, da sie Aufgabenstellungen aus unterschiedlichen fachlichen Blickwinkeln analysieren und bewerten und fachwissenschaftliche Praxis hinterfragen können.

Es folgen die Qualifikationsziele, die mit der Wahl des jeweiligen Vertiefungsbereichs verbunden sind.

Studierende,

1. die den Vertiefungsbereich Industrial Organization gewählt haben, bewerten mit Hilfe mikroökonomischer Methoden und Konzepte (wie zum Beispiel spieltheoretische Ansätzen) Unternehmensstrategien und Wettbewerbsprozesse. Dadurch sind Studierende des Vertiefungsbereichs insbesondere befähigt, komplexe unternehmens- und wirtschaftspolitischen Fragestellungen zu analysieren und auf der Basis theoretischer Modelle differenzierte Marktanalysen zu generieren sowie im Rahmen des strategischen Managements Handlungsempfehlungen zu entwerfen.
2. die den Vertiefungsbereich International Business gewählt haben, verstehen, basierend auf relevanten Theorien des Cross-Cultural Managements und durch praxisbezogene Übungen und Fallbeispiele sowie Seminare, die auf regional- und landesspezifische Handlungsweisen ausgerichtet sind, die Arbeit als Manager/-in in einer globalisierten Geschäftswelt. Studierende des Vertiefungsbereichs sind in der Lage, die erworbenen Kenntnisse in interkulturellen Kommunikations- und Verhandlungssituationen sowie im Teammanagement anzuwenden, was sie befähigt, Führungsaufgaben in international agierenden Unternehmen zu übernehmen.
3. die den Vertiefungsbereich Marketing gewählt haben, können komplexe analytische Modelle zur Marktanalyse bzw. -forschung implementieren sowie ihre Ergebnisse reflektiert bewerten. Sie können daraus konkrete Handlungsoptionen oder Forschungsergebnisse generieren.
4. die den Vertiefungsbereich HRM and Organization gewählt haben, können komplexe Fragen aus dem Personalbereich aus ökonomischer Perspektive auf Basis fortgeschrittener theoretischer Modelle analysieren und einschlägige, methodisch anspruchsvolle empirische Studien zum Thema nachvollziehen und interpretieren, um auf dieser Basis Lösungsansätze für Probleme in der Praxis zu entwickeln bzw. diese im akademischen Diskurs zu diskutieren.
5. die den Vertiefungsbereich Banking gewählt haben, können analytische Methoden und einschlägige Konzepte verstehen und diese nutzen, um komplexe bankwirtschaftliche Fragestellungen zu bewerten. Sie sind in der Lage selbstständig Lösungen bankpraktischer Entscheidungsprobleme entwickeln.
6. die den Vertiefungsbereich Finance gewählt haben, können mit Hilfe fortgeschrittener theoretischer Modelle Fragestellungen aus dem Bereich Corporate Finance, Derivative, Risikomanagement und Asset Management analysieren und selbstständig konkrete Handlungsoptionen und Lösungsansätze entwickeln.
7. die den Vertiefungsbereich International Accounting, Auditing and Corporate Governance gewählt haben, sind in der Lage, verschiedene Bereiche der Corporate Governance aus modelltheoretischer Sicht zu analysieren und einschlägige empirische Befunde zu bewerten. Sie können Fragestellungen der Internationalen Rechnungslegung und Wirtschaftsprüfung eigenständig untersuchen und Regulierungsmaßnahmen insbesondere in diesen Bereichen beurteilen. Weiterhin können die Studierenden die Theorie der Unternehmensbewertung und die einschlägigen institutionellen Rahmenbedingungen in Deutschland skizzieren und sind in der Lage, Probleme der Bewertungspraxis zu identifizieren und Lösungsvorschläge zu generieren und zu beurteilen.
8. die den Vertiefungsbereich Econometrics gewählt haben können ökonometrische Methoden reflektiert auf konkrete Fragestellungen aus unterschiedlichen Bereichen der Wirtschaftswissenschaft transferieren. Sie sind in der Lage Empfehlungen auf Basis ihrer Ergebnisse ableiten.
9. die den Vertiefungsbereich International Business Taxation gewählt haben, sind in der Lage, die

(steuerlichen) Auswirkungen unterschiedlicher transnationaler Unternehmensstrukturen differenziert zu beurteilen und können auch komplexe Fragestellungen selbstständig anhand empirischer Daten analysieren und bewerten, um gegebenenfalls Handlungsempfehlungen generieren zu können.

10. die den Vertiefungsbereich Managerial Accounting gewählt haben, können mit Hilfe mikroökonomischer und ökonometrischer Methoden komplexe Fragestellungen aus den Bereichen Controlling, Unternehmensrechnung, Performance Management, Vorstandsvergütung, Anreizsysteme und wertorientierte Unternehmenssteuerung analysieren und bewerten. Weiterhin sind die Studierenden in der Lage, auf Basis theoretischer und empirischer Modelle selbstständig Handlungsempfehlungen zu erarbeiten und zu beurteilen sowie Forschungsergebnisse einzuschätzen.

### **Fachliche und sprachliche Voraussetzungen**

Voraussetzung für die Aufnahme des Studiums im M.Sc. Programm International Business ist ein Bachelorabschluss in BWL oder VWL mit einem Umfang von 180 ECTS-Punkten. Des Weiteren werden solide Grundkenntnisse in Betriebswirtschaftslehre, Volkswirtschaftslehre sowie in Mathematik, Statistik und Ökonometrie vorausgesetzt.

Von Vorteil sind Vorkenntnisse im Bereich Sprache und Kultur des asiatischen Raumes sofern der Bewerber einen entsprechenden Schwerpunkt im Rahmen des Studienganges setzen möchte.

Die Studien- und Prüfungssprache im Masterstudiengang International Business sind Englisch und Deutsch, gleichermaßen ist einschlägige Fachliteratur oft in englischer Sprache verfasst. Es wird vorausgesetzt, dass die Studierenden über sehr gute deutsche Sprachkenntnisse (etwa C1 nach dem Europäischen Referenzrahmen) sowie sehr gute englische Sprachkenntnisse (etwa B2 nach dem Europäischen Referenzrahmen) verfügen. Beratung insbesondere zu den deutschen Sprachkenntnissen für internationale Bewerber erhalten Sie bei der Zulassungsstelle für internationale Studierende. Kurse an den Partneruniversitäten werden überwiegend in Englisch gehalten.

### **Studienverlauf**

Der Masterstudiengang in International Business wird an der Universität Tübingen und an ein bis zwei Partneruniversitäten studiert. Bei einem Doppelmasterabschluss (Rikkyo) werden an jeder der beiden Universitäten jeweils 60 ECTS-Punkte erworben, bei einem Auslandsstudium ohne den Erwerb eines Doppelmasters werden an der bzw. den Partneruniversität(en) 42 ECTS-Punkte erworben.

Der Teil des Studiengangs an der Universität Tübingen ist in drei Bereiche unterteilt: Den Vertiefungsbereich, den Wahlbereich und den Bereich Sprache und Kultur. Innerhalb des Vertiefungsbereichs richten die Studierenden ihr Studium nach zwei bis drei der folgenden Bereiche aus:

1. Industrial Organization
2. International Business
3. Marketing
4. HRM and Organization
5. Banking
6. Finance
7. International Accounting, Auditing and Corporate Governance
8. Econometrics
9. International Business Taxation
10. Managerial Accounting

Je nachdem, ob die Masterarbeit für die Universität Tübingen oder für die Partneruniversität angefertigt wird, (dies ist nur im Fall eines Doppelmasterabschlusses möglich), gibt es zwei Varianten des Studiums.

### **Variante ohne Doppelabschluss:**

Insgesamt müssen in diesem Studiengang 120 ECTS-Punkte erworben werden (78 davon werden an der Universität Tübingen erworben), von denen 18 ECTS-Punkte auf die Masterarbeit entfallen.

Studierende müssen zwei Vertiefungsbereiche wählen und zu jedem dieser beiden Bereiche jeweils ein Grundlagenmodul im Umfang von 9 ECTS-Punkten belegen.

In den Vertiefungsbereichen müssen weitere Module im Umfang von 9 – 18 ECTS-Punkten belegt werden.

Das Modul „Advanced Topics in International Business“ dient der Vorbereitung der Masterarbeit und hat einen Umfang von 9 ECTS-Punkten.

Im Wahlbereich können Module im Umfang von mindestens 33 und maximal 42 ECTS-Punkten belegt werden.

Im Bereich Sprache und Kultur können insgesamt 15 bis 33 ECTS-Punkte erworben werden, davon 15- 24 in Sprache und Kultur I an der Universität Tübingen und bis zu 9 ECTS-Punkte in Sprache und Kultur II an (einer) der Partneruniversität(en). Die Inhalte des Bereichs Sprache und Kultur werden sowohl in Abhängigkeit von dem Land bzw. den Ländern, in denen die Auslandssemester absolviert werden als auch entsprechenden Vorkenntnissen in Absprache mit der Studienfachberatung des entsprechenden Faches festgelegt und orientieren sich im Regelfall an den Vorgaben aus dem Modulhandbuch für außerfachliche Veranstaltungen.

Es besteht keine Pflicht zur Belegung von Modulen im Bereich Sprache und Kultur, eine Belegung kann in Einzelfällen ausgeschlossen sein, wenn aufgrund umfassender Vorkenntnisse keine Belegung weiterer Module im Bereich Sprache und Kultur möglich ist.

In diesen Fällen werden keine ECTS-Punkte im Bereich Sprache und Kultur I an der Universität Tübingen erworben. Stattdessen müssen drei Vertiefungsbereiche mit je einem Grundlagenmodul à 9 ECTS-Punkte gewählt werden und in den Vertiefungsbereichen sind über die Grundlagenmodule hinaus weitere Module im Umfang von 24 ECTS-Punkten zu belegen. Im Wahlbereich müssen Module im Umfang von 33-42 ECTS-Punkten gewählt werden. Die Möglichkeit, im Ausland Veranstaltungen im Rahmen des Bereichs Sprache und Kultur II zu belegen, besteht ausdrücklich auch dann, wenn in Tübingen keine Veranstaltungen im Bereich Sprache und Kultur I belegt wurden. Maximal können so 9 ECTS-Punkte erworben werden.

Voraussetzung für die Zulassung zur Masterarbeit ist der Erwerb von mindestens 30 ECTS-Punkten im Rahmen der Vertiefungsbereiche. Abhängig davon, an welchem Lehrstuhl die Masterarbeit angefertigt wird, kann der Besuch eines Methodenseminars vorgeschrieben sein. Dieses Seminar muss unter Umständen, beispielsweise bei Auslandsaufenthalt im zweiten Studienjahr, bereits im ersten Studienjahr belegt werden.

### **B: Variante mit Doppelabschluss**

#### *Studienverlauf für Studierende der Eberhard Karls Universität Tübingen*

Abweichend von den obigen Regelungen (Variante A) kann der M.Sc. in International Business auch mit einem Doppelabschluss (Rikkyo University) abgeschlossen werden. In diesem Fall werden in Tübingen und an der Partneruniversität jeweils 60 ECTS-Punkte erworben, die Masterarbeit wird, abweichend von der obigen Regelung, für die Partneruniversität geschrieben und betreut und den dort erworbenen Leistungen zugerechnet. <sup>1</sup>

---

<sup>1</sup> Je nach Regelung in der zu Grunde liegenden Kooperationsvereinbarung ist die Benennung eines Lehrenden der Universität Tübingen als Zweitbetreuer der an der Partnerhochschule angefertigten Masterarbeit möglich.

### *Studienverlauf für Studierende der Partneruniversität*

Studierende der Partneruniversität (Incomings) verbringen das 1. Jahr an ihrer Heimatuniversität und erwerben dort je nach Regelung der zu Grunde liegenden Kooperationsvereinbarung 60 ECTS-Punkte. Das zweite Jahr wird an der Eberhard Karls Universität Tübingen absolviert, wo auch die Masterarbeit (18 ECTS-Punkte) angefertigt wird.

Studierende wählen zwei Vertiefungsbereiche und belegen darin jeweils ein Grundlagenmodul im Umfang von 9 ECTS-Punkten. Neben den Grundlagenmodulen sind in den Vertiefungsbereichen mindestens 12 und maximal 15 ECTS-Punkte zu erwerben.

Im Modul „Advanced Topics in International Business“, welches der Vorbereitung der Masterarbeit dient, werden 9 ECTS-Punkte erworben.

Im Wahlbereich können Module im Umfang von max. 3 ECTS-Punkten belegt werden, es ist jedoch auch möglich, gar keine ECTS-Punkte im Wahlbereich zu erwerben und dementsprechend mehr Module aus den Vertiefungsbereichen zu wählen.

Voraussetzung für die Zulassung zur Masterarbeit ist der Erwerb von mindestens 30 ECTS-Punkten im Rahmen der Vertiefungs- und Wahlbereiche. Abhängig davon, an welchem Lehrstuhl die Masterarbeit angefertigt wird, kann der Besuch eines Methodenseminars vorgeschrieben sein. Dieses Seminar muss unter Umständen, beispielsweise bei Auslandsaufenthalt im zweiten Studienjahr, bereits im ersten Studienjahr belegt werden.

### **PhD-Orientierung**

Der Studiengang M.Sc. in International Business kann auch in einer Variante mit expliziter PhD-Orientierung absolviert werden. Voraussetzungen für die Eintragung des Zusatzes „mit PhD-Orientierung“ auf dem Zeugnis ist, dass mindestens insgesamt 18 ECTS-Punkte der außerhalb des Grundlagenbereichs erworbenen ECTS-Punkte aus Modulen stammen müssen, die im Modulhandbuch explizit als PhD-orientiert gekennzeichnet sind. Dies können auch Module einer Partnerhochschule sein, sofern diese nachweislich PhD-orientiert sind.

**Studienverlaufsplan M. Sc. International Business**  
ohne Sprache und Kultur

1.-2. Semester				3.-4. Semester (an der Partneruniversität) <sup>4)</sup>				
Vertiefungsbereich I Grundlagenmodul	9	Vertiefungsbereich III Grundlagenmodul	9	Wahlbereich <sup>2)</sup>	33-42	insg. 42	Masterarbeit	18
Vertiefungsbereich II Grundlagenmodul	9	Vertiefungsbereiche I-III <sup>1)</sup>	24					
Advanced Topics in International Business <sup>6)</sup>	9					Sprache und Kultur II <sup>3)</sup>	0-9	

1) Vertiefungsbereiche: Sie müssen neben den Grundlagenmodulen weitere Module aus den gewählten Vertiefungsbereichen im Umfang von insgesamt 24 ECTS-Punkten belegen.

2) Wahlbereich: Die Veranstaltungen des Wahlbereichs werden an der Partneruniversität gemäß den Regelungen und Vorschriften derselben ausgewählt und besucht.

3) Sprache und Kultur II: Im Rahmen des Auslandsaufenthaltes können an der Partneruniversität bis zu 9 ECTS in Lehrveranstaltungen zu Sprache und Kultur des jeweiligen Landes belegt werden.

4) Die Veranstaltungen an der Partneruniversität werden gemäß den dort geltenden Vorschriften ausgewählt und belegt. Die Studierenden müssen bei der Auswahl Sorge tragen, dass Sie keine Lehrveranstaltungen belegen, die sich mit bereits belegten Lehrveranstaltungen inhaltlich zu einem großen Teil überschneiden. Die Anfertigung einer Masterarbeit im Umfang von 18 ECTS-Punkten an der Partneruniversität ist verpflichtend.

5) Die Masterarbeit wird für Studierende der Double Degree Option an der Partnerhochschule geschrieben und betreut. Studierende, die den Studiengang nicht im Rahmen eines Doppelabschlussagreements studieren, schreiben die Masterarbeit an der Universität Tübingen und werden während ihres Auslandsaufenthaltes fernbetreut.

6) Das Modul "Advanced Topics in International Business" dient der Vorbereitung der Masterarbeit. Es wird empfohlen, im Rahmen dieses Moduls eine Veranstaltung zu belegen, die einem der bereits gewählten Vertiefungsbereiche zugeordnet ist.

**Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in International Business (ohne Sprache und Kultur) daher wie folgt aussehen:**

1. Semester		2. Semester		3.-4. Semester (an der Partneruniversität)				
Vertiefungsbereich Marketing Grundlagenmodul <i>B420 Marketing - Mix Management</i>	9	CM5_07 Advanced Topics in International Business	9	Wahlbereich	33-42	insg. .42	Masterarbeit and der Partneruniversität /  MA5_07 Master Thesis in International Business	18
Vertiefungsbereich HRM and Organization Grundlagenmodul <i>B440 Personnel Economics</i>	9	Vertiefungsbereich Econometrics S422 Advanced Microeconomics	9					
Vertiefungsbereich Econometrics Grundlagenmodul <i>S411 Advanced Time Series Analysis</i>	9	Vertiefungsbereich HRM and Organization B441 Comparative Employment Relations	6					
		Vertiefungsbereich Marketing B463B Businesspläne für Startups	9	Sprache und Kultur II	0-9			

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

## Studienverlaufsplan M. Sc. International Business mit Sprache und Kultur

1.-2. Semester				3.-4. Semester (Veranstaltungen an der Partneruniversität) <sup>4)</sup>				
Vertiefungsbereich I Grundlagenmodul	9	Vertiefungsbereich I-II <sup>1)</sup>	9-18	Wahlbereich <sup>2)</sup>	33-42	insg. 42	Masterarbeit <sup>5)</sup>	18
Vertiefungsbereich II Grundlagenmodul	9	Sprache und Kultur I <sup>3)</sup>	15-24					
Advanced Topics in International Business <sup>6)</sup>	9							

- 1) Vertiefungsbereiche: Sie müssen neben den Grundlagenmodulen weitere Module aus den gewählten Vertiefungsbereichen im Umfang von 9 ECTS-Punkten belegen.
- 2) Wahlbereich: Die Module des Wahlbereichs werden an der Partneruniversität gemäß den Regelungen und Vorschriften derselben ausgewählt und besucht. Insgesamt müssen im Wahlbereich und im Bereich Sprache und Kultur II 42 ECTS-Punkte erworben werden.
- 3) Sprache und Kultur I und II: Die im Rahmen des Bereichs Sprache und Kultur I zu absolvierenden Lehrveranstaltungen unterscheiden sich je nach Landessprache und sind im Modulhandbuch für außerfachliche Veranstaltungen geregelt. Im Rahmen des Auslandsaufenthaltes können an der Partneruniversität bis zu 9 ECTS in Lehrveranstaltungen zu Sprache und Kultur des jeweiligen Landes belegt werden (Bereich Sprache und Kultur II). Die Inhalte der Bereiche Sprache und Kultur sind immer mit der Studienfachberatung (geg. auch den Fachbeauftragten der Institute, die für die Sprachausbildung zuständig sind) abzusprechen. Insgesamt müssen im Wahlbereich und im Bereich Sprache und Kultur II 42 ECTS-Punkte erworben werden.
- 4) Die Veranstaltungen an der Partneruniversität werden gemäß den dort geltenden Vorschriften ausgewählt und belegt. Die Studierenden müssen bei der Auswahl Sorge tragen, dass Sie keine Lehrveranstaltungen belegen, die sich mit bereits belegten Lehrveranstaltungen inhaltlich zu einem großen Teil überschneiden. Die Anfertigung einer Masterarbeit im Umfang von 18 ECTS-Punkten an der Partneruniversität ist verpflichtend.
- 5) Die Masterarbeit wird für Studierende der Double Degree Option an der Partnerhochschule geschrieben und betreut. Studierende, die den Studiengang nicht im Rahmen eines Doppelabschlussagreements studieren, schreiben die Masterarbeit an der Universität Tübingen und werden während ihres Auslandsaufenthaltes fernbetreut.
- 6) Das Modul "Advanced Topics in International Business" dient der Vorbereitung der Masterarbeit. Es wird empfohlen, im Rahmen dieses Moduls eine Veranstaltung zu belegen, die einem der bereits gewählten Vertiefungsbereiche zugeordnet ist.

### Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in International Business (mit Sprache und Kultur) daher wie folgt aussehen:

1. Semester		2. Semester		3. und 4. Semester	
Vertiefungsbereich Marketing Grundlagenmodul <i>B420 Marketing - Mix Management</i>	9	Vertiefungsbereich International Business Grundlagenmodul <i>B490 Managing Across Cultures</i>	9	Leistungen an der Partneruniversität	42
Vertiefungsbereich Marketing <i>B463 Strategy &amp; Innovation</i>	9	CM5_07 Advanced Topics in International Business	9		
Sprache und Kultur		24	Masterarbeit and der Partneruniversität /  MA5_07 Masterarbeit an der Universität Tübingen		18

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.



**Studienverlaufsplan M.Sc. International Business (Studierende der Partneruniversität (Incomings))**

1.-2. Semester		3.-4. Semester					
Veranstaltungen an der Partneruniversität <sup>1)</sup>	60	Vertiefungsbereich I Grundlagenmodul	9	18	Vertiefungsbereiche I-II <sup>2)</sup>	12-15	insg. 15
		Vertiefungsbereich II Grundlagenmodul	9		Freier Wahlbereich <sup>2)</sup>	0-3	
		Advanced Topics in International Business <sup>3)</sup>		9	Master Thesis in International Business		

1) Die Veranstaltungen an der Partneruniversität werden gemäß den dort geltenden Vorschriften ausgewählt und belegt.

2) Vertiefungsbereiche: Sie müssen neben den Grundlagenmodulen weitere Module aus den gewählten Vertiefungsbereichen im Umfang von 12-15 ECTS-Punkten belegen. Sie können bis zu 3 ECTS-Punkte im Freien Wahlbereich erwerben.

3) Das Modul "Advanced Topics in International Business" dient der Vorbereitung der Masterarbeit.

**Beispielhaft könnte der Studienverlaufsplan für den M.Sc. in International Business für Studierende der Partneruniversität (Incomings) im Double Degree wie folgt aussehen**

1.-2. Semester		3.-4. Semester						
Veranstaltungen an der Partneruniversität <sup>2)</sup>	60	Vertiefungsbereich Marketing Grundlagemodul <i>B420 Marketing Mix Management</i>	9	18	Vertiefungsbereich Marketing <i>B421 eBusiness</i>	6	12	insg. 15
		Vertiefungsbereich HRM and Organization Grundlagenmodul <i>B440 Personnel Economics</i>	9		Vertiefungsbereich HRM and Organization <i>B441 Comparative Employment Relations</i>	6		
		Advanced Topics in International Business <i>CM5_07 Advanced Topics in International Business</i>		9	Freier Wahlbereich <i>Deutschkurs</i>			3
				Master Thesis in International Business <i>5_07 Master Thesis in International Business</i>				

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

<i>Number</i>	<i>Module Title</i>	<i>Rec. Sem</i>	<i>ECTS-credits</i>	<i>WS/SS</i>
<b>MSC-MAN-CMIO-23 Vertiefungsbereich Industrial Organization - Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
E450B	Game Theory and Industrial Organization	1/3	9	WS
<b>MSC-MAN-IO-23 Vertiefungsbereich Industrial Organization (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)</b>				
B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS
B463	Strategy & Innovation	1-4	9	WS
B463B	Businesspläne für Startups	1-4	9	SS
E440	Multinational Enterprises	1-4	6	WS
E441	Advanced Microeconomics II	1-4	6	SS
E453A	Economic Growth	1-4	6	SS
E453B	Economic Growth	1-4	9	SS
E454	Innovation and Technological Change	1-4	6	WS
E456	Behavioral Economics	1-4	6	SS
E550	Topics in Applied Economic Theory	1-4	9	WS, SS
<b>MSC-MAN-CMIB-23 Vertiefungsbereich International Business – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
B490	Managing Across Cultures	2/4	9	SS
<b>MSC-MAN-IB-23 Vertiefungsbereich International Business (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)</b>				
B441	Comparative Employment Relations	1-4	6	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS
B493A	Doing Business in Selected Countries and World Regions	1-4	6	SS
B493B	Doing Business in Africa	1-4	6	WS
B495	Current Issues in International Business I	1-4	6	WS, SS
B496	Current Issues in International Business II	1-4	6	WS, SS
B497	Current Issues in International Business III	1-4	6	WS, SS
WE4_01	Introduction to Business Ethics	1-4	6	WS, SS
<b>MSC-MAN-CMMA-23 Vertiefungsbereich Marketing – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)</b>				
B420	Marketing-Mix Management	1/3	9	WS

**MSC-MAN-MA-23 Vertiefungsbereich Marketing (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B421	eBusiness	1-4	6	SS
B425	Data Science and Marketing 1	1-4	6	WS, SS
B426	Data Science and Marketing 2	1-4	6	WS, SS
B463	Strategy & Innovation	1-4	9	WS
B463B	Businesspläne für Startups	1-4	9	SS
B465	Specialization in Economic Research	1-4	6	WS or SS
E454	Innovation and Technological Change	1-4	6	WS

**MSC-MAN-CMHRM-23 Vertiefungsbereich HRM and Organization – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B440	Personnel Economics	1/3	9	WS
------	---------------------	-----	---	----

**MSC-MAN-HRM-23 Vertiefungsbereich HRM and Organization (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS
B432A	Organizational Economics	1-4	6	SS
B432B	Organizational Economics	1-4	9	SS
B441	Comparative Employment Relations	1-4	6	SS
B460	Sustainable Strategy	1-4	6	WS
B461	Empirical Studies in Sustainable Strategy	1-4	6	WS
E456	Behavioral Economics	1-4	6	SS
S422	Advanced Microeconometrics	1-4	9	SS

**MSC-MAN-CMBNK-23 Vertiefungsbereich Banking – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B411	Theorie der Bank	2/4	9	SS
B413	Empirical Banking	2/4	9	SS

**MSC-MAN-BNK-23 Vertiefungsbereich Banking (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B411	Theorie der Bank	1-4	9	SS
B412	Bank Management	1-4	6	WS
B413	Empirical Banking	1-4	9	SS
B414A	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-4	6	SS
B414B	CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation	1-4	12	SS

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B464	Financial Institutions in the "New Normal"	1-4	6	SS
B465	Specialization in Economic Research	1-4	6	WS or SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
B480B	Unternehmenspublizität und Märkte B	1-4	9	WS
B512	CFA Colloquium	1-4	6	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S416	Topics in Financial Econom[etr]ics	1-4	6	WS or SS
S420	Statistics of Financial Markets	1-4	9	WS

---

**MSC-MAN-CMFIN-23 Vertiefungsbereich Finance – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B400	Advanced Corporate Finance	1/3	9	WS
B401	Continuous-time Derivatives Pricing	2/4	9	SS
S412	Empirical Asset Pricing	2/4	9	SS

---

**MSC-MAN-FIN-23 Vertiefungsbereich Finance (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B400	Advanced Corporate Finance	1-4	9	WS
B401	Continuous-time Derivatives Pricing	1-4	9	SS
B404	Modern Issues in Finance 1	1-4	6	WS, SS
B405	Modern Issues in Finance 2	1-4	6	WS, SS
B413	Empirical Banking	1-4	9	SS
B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B464	Financial Institutions in the "New Normal"	1-4	6	SS
B466	Financial Intermediation – Theory and Empirics	1-4	9	WS
S412	Empirical Asset Pricing	1-4	9	SS
S413	Financial Economics	1-4	9	WS
S416	Topics in Financial Econom[etr]ics	1-4	6	WS or SS
S420	Statistics of Financial Markets	1-4	9	WS

---

**MSC-MAN-CMIACC-23 Vertiefungsbereich International Accounting, Auditing and Corporate Governance – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B480B	Unternehmenspublizität und Märkte B	1/3	9	WS
-------	-------------------------------------	-----	---	----

---

**MSC-MAN-IACC-23 Vertiefungsbereich International Accounting, Auditing and Corporate Governance (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B430A	Managerial Accounting and Cost Analysis	1-4	6	WS
B430B	Managerial Accounting and Cost Analysis	1-4	9	WS

B481A	Sustainable Governance A	1-4	6	SS
B481B	Sustainable Governance B	1-4	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS

**MSC-MAN-CMEMET-23 Vertiefungsbereich Econometrics – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

S411	Advanced Time Series Analysis	1/3	9	WS
S422	Advanced Microeconometrics	2/4	9	SS

**MSC-MAN-EMET-23 Vertiefungsbereich Econometrics (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

S411	Advanced Time Series Analysis	1-4	9	WS
S415	Machine Learning in Econometrics	1-4	6	SS
S420	Statistics of Financial Markets	1-4	9	WS
S422	Advanced Microeconometrics	1-4	9	SS

**MSC-MAN-CMIBT-23 Vertiefungsbereich International Business Taxation – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B450A	Taxes and Business Strategy	2/4	9	SS
-------	-----------------------------	-----	---	----

**MSC-MAN-IBT-23 Vertiefungsbereich International Business Taxation (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B451	Unternehmensbesteuerung	1-4	9	WS
B452	Internationale Unternehmensbesteuerung	1-4	6	SS
B455	Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer	1-4	9	WS
B457	M&A Tax	1-4	6	SS
B480A	Unternehmenspublizität und Märkte A	1-4	6	WS
B481A	Sustainable Governance A	1-4	6	SS
B481B	Sustainable Governance B	1-4	9	SS
B482	Current Topics in Financial Accounting & Financial Analysis	1-4	6	WS
B483	Empirical Accounting Research	1-4	6	WS or SS

**MSC-MAN-CMMACC-23 Vertiefungsbereich Managerial Accounting – Grundlagenmodul (0/9 ECTS-Punkte, Wahlpflicht)**

B430B	Managerial Accounting and Cost Analysis	1/3	9	WS
-------	---	-----	---	----

**MSC-MAN-MACC\_23 Vertiefungsbereich Managerial Accounting (0-24 / 0-18 / 0-15 ECTS-Punkte, Wahlpflicht)**

B416	Rechnungslegung von Finanzinstrumenten	1-4	6	WS
B417	Sustainable Finance	1-4	6	SS
B432A	Organizational Economics	1-4	6	SS

B432B	Organizational Economics	1-4	9	SS
B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-4	6	WS
B440	Personnel Economics	1-4	9	WS
B480B	Unternehmenspublizität und Märkte B	1-4	9	WS

---

**Sprache und Kultur I (0 / 15-24 ECTS-Punkte, Wahlpflicht)**

Die im Rahmen des Bereichs Sprache und Kultur I zu absolvierenden Lehrveranstaltungen unterscheiden sich je nach Landessprache und sind im Modulhandbuch für außerfachliche Veranstaltungen geregelt. Die Inhalte der Bereiche Sprache und Kultur sind immer mit der Studienfachberatung (geg. auch den Fachbeauftragten der Institute, die für die Sprachausbildung zuständig sind) abzusprechen.

**Wahlbereich (33-42 ECTS-Punkte, Wahlpflicht)**

**Sprache und Kultur II (0-9 ECTS-Punkte, Wahlpflicht)**

Insgesamt 42 ECTS-Punkte sind an der Partneruniversität zu erwerben und werden in Wahlmodulen bzw. im Bereich Sprache und Kultur (maximal 9 ECTS-Punkte) angerechnet. Die Wahl von Modulen an der Partneruniversität erfolgt in Rücksprache mit dem Studiengangbeauftragten bzw. der Studiengangadministration.

**MSC-FES-23 Freier Wahlbereich (0-3 ECTS-Punkte, Wahl, nur für Incoming Double Degree-Studierende)**

In diesem Bereich sind alle Mastermodule des Fachbereichs Wirtschaftswissenschaft wählbar. Ausgenommen sind die Module Advanced Topics. Zusätzlich können ausgewählte Module anderer Institutionen gemäß dem Modulhandbuch für außerfachliche Veranstaltungen (<https://uni-tuebingen.de/en/31075>) angerechnet werden.

**MSC-IB-AT-23 Advanced Topics in International Business (9 ECTS-Punkte, Pflicht)**

CM5_07	Advanced Topics in International Business	1-4	9	WS, SS
--------	---	-----	---	--------

**MSC-IB-MT-23 Master Thesis in International Business (24 ECTS-Punkte, Pflicht)**

MA5_07	Master Thesis in International Business	4	18	WS, SS
--------	---	---	----	--------

## **Curriculum M.Sc. Management and Economics**

The M.Sc. program in Management and Economics is oriented towards students who are planning to pursue a professional or an academic career. The modules offered within this three-semester program deal with the strategic behavior of competing firms and focus on implementing management tools within firms to provide an informational basis for successful business strategies. Graduates have excellent career prospects, both in the private sector and in governmental and international institutions. They are particularly attractive candidates for strategic management and leadership positions in international companies, consulting firms, banks, and insurance companies. Furthermore, the program can serve as a starting point for an academic career.

### **Objectives**

Graduates of the M.Sc. in Management and Economics are able to apply different methods and methodologies of economics and business studies. They are able to transfer these methods to other fields of study and are thus able to develop solutions to problems in various fields of business studies and economics both in theoretical and professional contexts.

Students are able to understand and critically analyze strategic behavior of competing firms and can utilize the firm's accounting system to derive informed strategic recommendations while accounting for potential information asymmetries. Moreover, students are able to select and employ appropriate performance measures, can design efficient incentive systems and are trained in the theory application of strategies furthering the accumulation and maintenance of human capital. Graduates of this program can apply advanced methods of game theory and principal-agent-theory to understand the implications of strategic interaction among different players. Students are able to operate in a global environment and can quickly react to changing business and market conditions, competitor's actions, and internal governance problems.

Graduates can constructively review the latest research and to independently develop their own scientific projects and to contribute to the academic discourse in the field of Economics.

### **Study Abroad**

A stay abroad is not compulsory, but is certainly compatible with the program – especially, but not only, for those students that completed a Bachelor program with 180 ECTS and need to take additional 30 ECTS points.

### **Educational Qualification and Language Requirements**

To enter the program M.Sc. in Management and Economics, a Bachelor's degree in Economics, Business Administration or any related field is required, preferably a degree that amounts to 210 ECTS-credits. Students entering with a 3-year Bachelor's degree (180 ECTS-credits) are required to earn 30 additional ECTS-credits in order to obtain a Master's degree in this program. These extra credits might be earned while studying abroad.

We expect students to be familiar with the basic principles, theories and concepts in Economics *and* Business Studies. In particular, sound intermediate level knowledge of Microeconomics and Quantitative Methods (Mathematics, Statistics, Econometrics) is expected.

The instruction and examination language for this program is English. Thus, a very good knowledge of English (e.g. B2-Niveau, Common European Framework of Reference for Languages) is required. German is not required. German language courses are available to international students.

## **Curriculum**

The Master of Science program in Management and Economics is divided into three main areas of study: Core Studies, Specialization Studies and Elective Studies. In addition, students must complete the modules Advanced Topics in Management and Economics and Selected Issues in Managerial Economics. To complete the program, students have to obtain 90 ECTS-credits, 24 of which are awarded for the Master Thesis.

Within the Core Studies students have to obtain 27 ECTS-credits.

In the area of Specialization Studies, students have to obtain a total of 9-24 ECTS-credits.

In the area of Elective Studies, students may obtain up to 15 ECTS-credits. The sum of modules taken within the areas Specialization Studies and Elective Studies must be 24 ECTS-credits.

Students are required to complete the module Selected Issues in Managerial Economics which amounts to 6 ECTS-credits.

Students must complete the module Advanced Topics in Management and Economics which earns them 9 ECTS-credits.

The completion of modules from within the Core and Specialization Studies worth at least 30 ECTS-credits is a precondition for being admitted to the Master Thesis. Furthermore, depending on the chair supervising the Master Thesis, attending a Method Seminar can be obligatory. Under certain conditions, e.g. studying abroad in the second academic year, this seminar must be attended in the first academic year of this program.

## **PhD-Orientation**

This program can be completed with an explicit PhD-orientation. The prerequisite for this additional entry on the certificate are (in addition to the successful completion of the program) is that a minimum of 12 ECTS-credits outside of the core studies must have been obtained in modules that are described as PhD-oriented in this handbook.



## Curriculum M.Sc. Management and Economics

1 <sup>st</sup> - 3 <sup>rd</sup> Semester						
Core Studies	27	Specialization Studies <sup>1)</sup>	9-24	total 24	Selected Issues in Managerial Economics	6
		Elective Studies <sup>2)</sup>	0-15		Master Thesis in Management and Economics <sup>4)</sup>	24
		Advanced Topics in Management and Economics <sup>3)</sup>	9			

1) Specialization Studies: Students must take modules worth 9-24 ECTS-credits within the Specialization Studies. Modules taken within the Specialization and Elective Studies must amount to 24 ECTS-credits in total.

2) Students may take modules worth up to 15 ECTS-credits within the Elective Studies.

3) The module "Advanced Topics in Management and Economics" prepares students for the master thesis project.

4) The Master Thesis project may be started as early on as in the 2nd semester, please see student counselling and the intended supervisor to talk about your options.

For students who have to obtain an additional 30 ECTS-credits because they completed an undergraduate degree with only 180 ECTS-credits this program has a duration of four semesters. The additional 30 ECTS-credits can be obtained in all modules for M.Sc. students as well as in modules open to 3rd year bachelor students.

The third (and fourth if applicable) semester is (are) best suited to a study-abroad period, students should however be aware that a non-integrated stay abroad may cause a delay in their studies.

**The individual curriculum for the M.Sc. in Management and Economics could be designed as follows:**

1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester
<b>Core Studies</b> <i>B440 Personnel Economics</i>	9	<b>Elective Studies</b> B430A Managerial Accounting and Cost Analysis
<b>Core Studies</b> <i>E450B Game Theory and Industrial Organization</i>	9	6
<b>Specialization Studies</b> B461 Empirical Studies in Sustainable Strategy	6	<b>B519 Selected Issues in Managerial Economics</b>
<b>Specialization Studies</b> B434 Managerial Accounting: Control Systems, Top Executives, and Ethics	6	<b>CM5_09 Advanced Topics in Management and Economics</b>
<b>30</b>	<b>30</b>	<b>30</b>

Dies ist eine von zahlreichen Möglichkeiten Ihr Studium zu gestalten. Bitte stimmen Sie Ihren persönlichen Studienplan bei Bedarf mit der Studienfachberatung ab.

<i>Number</i>	<i>Title</i>	<i>Rec. Sem.</i>	<i>ECTS- credits</i>	<i>WS/SS</i>
<b><i>MSC-MECO-CS-23 Core Studies (27 ECTS-credits, compulsory)</i></b>				
B432B	Organizational Economics	2	9	SS
B440	Personnel Economics	1	9	WS
E450B	Game Theory and Industrial Organization	1	9	WS
<b><i>MSC-MECO-SPS-23 Specialization Studies (9 - 24 ECTS-credits, required elective)</i></b>				
B400	Advanced Corporate Finance	1-3	9	WS
B412	Bank Management	1-3	6	WS
B413	Empirical Banking	1-3	9	SS
B417	Sustainable Finance	1-3	6	SS
B434	Managerial Accounting: Control Systems, Top Executives, and Ethics	1-3	6	WS
B441	Comparative Employment Relations	1-3	6	SS
B460	Sustainable Strategy	1-3	6	WS
B461	Empirical Studies in Sustainable Strategy	1-3	6	WS
B463	Strategy & Innovation	1-3	9	WS
B463B	Businesspläne für Startups	1-3	9	SS
B465	Specialization in Economic Research	1-3	6	WS or SS
B466	Financial Intermediation – Theory and Empirics	1-3	9	WS
B512	CFA Colloquium	1-3	6	WS
E411	Economics of Taxation	1-3	9	SS
E424	Advanced Microeconomics I	1-3	9	WS
E432	Advanced Labour Economics	1-3	6	SS
E441	Advanced Microeconomics II	1-3	6	SS
E454	Innovation and Technological Change	1-3	6	WS
E456	Behavioral Economics	1-3	6	SS
E550	Topics in Applied Economic Theory	1-3	9	WS, SS
S412	Empirical Asset Pricing	1-3	9	SS
S413	Financial Economics	1-3	9	WS
S415	Machine Learning in Econometrics	1-3	6	SS
S422	Advanced Microeconometrics	1-3	9	SS
<b><i>MSC-MECO-SI-23 Selected Issues in Managerial Economics (6 ECTS-credits, compulsory)</i></b>				
B519	Selected Issues in Managerial Economics	2	6	SS
<b><i>MSC-MECO-AT-23 Advanced Topics in Management and Economics (9 ECTS-credits, compulsory)</i></b>				
CM5_09	Advanced Topics Management and Economics	2-3	9	WS, SS

**MSC-FES-23 Free Elective Studies (0 - 15 ECTS-credits, elective)**

Within this area, students may choose freely from all modules for Master students offered by the School of Business and Economics. The modules Advanced Topics are not eligible. Students may also choose from a select number of modules offered by other institutions. Eligible modules are listed in the Module Handbook for External Courses (Modulhandbuch für außerfachliche Veranstaltungen) ( <a href="https://uni-tuebingen.de/en/31075">https://uni-tuebingen.de/en/31075</a> ).	1-3	3/6/9/ X, depending on module	WS,SS
--	-----	----------------------------------	-------

**MSC-MECO-MT-23 Master Thesis in Management and Economics (24 ECTS-credits, compulsory)**

MA5_09	Master Thesis in Management and Economics	3	24	WS, SS
--------	---	---	----	--------

## **M.Sc. Quantitative Data Science Methods - Psychometrics, Econometrics and Machine Learning**

The international Master's Program Quantitative Data Science Methods – Psychometrics, Econometrics and Machine Learning (QDS) will enable graduates to analyze, implement, leverage, and modify statistical techniques from psychometrics, econometrics, and statistical learning. The unique selling point of this program is its interdisciplinarity which enables a flexible transfer of procedures between disciplines (for example, for modeling of human behavior with new techniques from statistical learning, instead of traditional methods in psychometrics).

Within the Study Area Econometrics, the School of Business and Economics contributes a significant portion of the courses for this program.

The M.Sc. Quantitative Data Science Methods - Psychometrics, Econometrics and Machine Learning has its own module handbook, which can be accessed online at the website of the Methods Center: <https://uni-tuebingen.de/de/160267>.

# Module Catalogue

## Module Catalogue

B400 Advanced Corporate Finance .....	89
B401 Continuous-time Derivatives Pricing.....	90
B402 Financial Statement Analysis .....	91
B403 Topics in International Financial Reporting and Risk Management .....	92
B404 Modern Issues in Finance 1 .....	93
B405 Modern Issues in Finance 2 .....	94
B411 Theorie der Bank.....	95
B412 Bank Management .....	96
B413 Empirical Banking.....	97
B414A CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation .....	98
B414B CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation.....	99
B416 Rechnungslegung von Finanzinstrumenten .....	100
B417 Sustainable Finance .....	101
B420 Marketing-Mix Management .....	102
B421 eBusiness .....	103
B425 Data Science and Marketing 1 .....	104
B426 Data Science and Marketing 2.....	105
B430A Managerial Accounting and Cost Analysis.....	106
B430B Managerial Accounting and Cost Analysis .....	107
B432A Organizational Economics.....	109
B432B Organizational Economics.....	110
B434 Managerial Accounting: Control Systems, Top Executives, and Ethics.....	111
B440 Personnel Economics.....	112
B441 Comparative Employment Relations .....	113
B450A Taxes and Business Strategy.....	114
B451 Unternehmensbesteuerung .....	115
B452 Internationale Unternehmensbesteuerung.....	116
B455 Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer .....	117
B457 M&A Tax.....	119
B460 Sustainable Strategy.....	120
B461 Empirical Studies in Sustainable Strategy .....	121
B463 Strategy & Innovation .....	122
B463B Businesspläne für Startups.....	124
B464 Financial Institutions in the "New Normal" .....	126

B465 Specialization in Economic Research .....	128
B466 Financial Intermediation – Theory and Empirics .....	129
B480A Unternehmenspublizität und Märkte A .....	131
B480B Unternehmenspublizität und Märkte B.....	132
B481A Sustainable Governance A.....	133
B481B Sustainable Governance B .....	134
B482 Current Topics in Financial Accounting & Financial Analysis.....	135
B483 Empirical Accounting Research.....	136
B490 Managing Across Cultures .....	137
B493A Doing Business in Selected Countries and World Regions.....	138
B493B Doing Business in Africa .....	139
B495 Current Issues in International Business I.....	140
B496 Current Issues in International Business II.....	141
B497 Current Issues in International Business III .....	142
B512 CFA Colloquium .....	143
B519 Selected Issues in Managerial Economics.....	145
B591 Topics in Advanced Research .....	146
CM5_01 Advanced Topics in Accounting and Finance .....	147
CM5_02 Advanced Topics in Economics .....	148
CM5_03 Advanced Topics in Economics and Finance.....	149
CM5_04 Advanced Topics in European Economics .....	150
CM5_05 Advanced Topics in European Management.....	151
CM5_06 Advanced Topics in General Management .....	152
CM5_07 Advanced Topics in International Business.....	153
CM5_08 Advanced Topics in Management and Economics .....	154
CM5_09 Advanced Topics in Data Science in Business and Economics .....	155
DS400 Data Science Project Management .....	156
DS401 Data Science Techniques 1 .....	157
DS402 Data Science Techniques 2 .....	158
DS403 Data Science Techniques 3 .....	159
DS404 Data Science Techniques 4 .....	160
DS405 Data Science Techniques 5 .....	161
DS406 Data Science Techniques 6 .....	162
DS407 Data Science Techniques 7 .....	163
DS408 Data Science Techniques 8 .....	164
DS500 Data Science Project .....	165

E410 Fiscal Federalism.....	166
E411 Economics of Taxation .....	167
E412 Topics in Public Policy I.....	168
E413 Topics in Public Policy II.....	169
E414 Topics in Public Policy III .....	170
E421 International Trade I.....	171
E422 International Trade II.....	172
E424 Advanced Microeconomics I.....	173
E431 Open Economy Macroeconomics .....	174
E432 Advanced Labour Economics .....	175
E433 Advanced Macroeconomics I.....	176
E434 Advanced Macroeconomics II.....	177
E435 European Economic Integration .....	179
E436 Quantitative Macroeconomics .....	180
E437 Computational Macroeconomics.....	182
E440 Multinational Enterprises .....	184
E441 Advanced Microeconomics II.....	185
E442 Empirical Methods and Data Analysis I.....	186
E443 Empirical Methods and Data Analysis II.....	187
E444 Empirical Methods and Data Analysis III .....	188
E445 Empirical Methods and Data Analysis IV .....	189
E446 Health Economics .....	190
E450A Game Theory and Industrial Organization.....	192
E450B Game Theory and Industrial Organization.....	193
E453A Economic Growth .....	194
E453B Economic Growth.....	195
E454 Innovation and Technological Change .....	196
E456 Behavioral Economics .....	197
E471 Empirical Topics in International Trade.....	198
E463 Causal Machine Learning .....	199
E464 Causal Inference.....	200
E465 Language and Culture I .....	201
E466 Language and Culture II.....	202
E467 Language and Culture III.....	203
E468 Language and Culture IV .....	204
E475 Macro-Finance .....	205



E480 Empirical Studies on Migration, Trade and Growth in the Long Run .....	206
E481 Topics in History I.....	207
E482 Topics in History II .....	208
E483 Topics in History III.....	209
E484 Topics in History IV.....	210
E550 Topics in Applied Economic Theory .....	211
E580 Topics in International Economic History I.....	213
E581 Topics in International Economic History II .....	215
MA5_01 Master Thesis in Accounting and Finance .....	217
MA5_02 Master Thesis in Economics .....	218
MA5_03 Master Thesis in Economics and Finance.....	219
MA5_04 Master Thesis in European Economics .....	220
MA5_05 Master Thesis in European Management.....	221
MA5_06 Master Thesis in General Management .....	222
MA5_07 Master Thesis in International Business .....	223
MA5_08 Master Thesis in Management and Economics .....	224
MA5_09 Master Thesis in Data Science in Business and Economics.....	225
S411 Advanced Time Series Analysis.....	226
S412 Empirical Asset Pricing .....	228
S413 Financial Economics.....	229
S414 Advanced Mathematical Methods.....	230
S415 Machine Learning in Econometrics .....	231
S416 Topics in Financial Econom[etr]ics .....	232
S420 Statistics of Financial Markets .....	233
S422 Advanced Microeconometrics.....	235
WE4_01 Introduction to Business Ethics.....	237

## B400 Advanced Corporate Finance

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) or Assignment - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Christian Koziol

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Core Studies Finance, Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Core Studies Finance, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Finance, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Finance Core Module, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module focuses on two fundamental question of corporate finance: (1) What is the optimal capital structure of a firm? (2) What drives the value of a firm? The aim of the module is to introduce students to practical and theoretical factors driving capital structure decisions as well as firm values. Within advanced model frameworks students will be enabled to analyze the effects of corporate decisions on issued claims and develop solutions for classical incentive problems in corporate financing.

### Objectives

Students develop central factors that drive the optimal capital structure and the total value of a firm. They assess and analyze advanced theoretical models dealing with specific issues and problems in corporate finance. In the practice course students apply those models to real-world data and develop solutions for classical corporate finance problems.

## B401 Continuous-time Derivatives Pricing

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Assignment - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Christian Koziol

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Core Studies Finance, Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Core Studies Finance, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Finance, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Finance Core Module, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module introduces fundamentals on stochastic processes for financial products. Students learn how to price derivatives by using differential equations. Further, pricing techniques like the Black-Scholes formula or numerical methods are developed to a broad variety of traded claims and applied to real-world data.

### Objectives

During this module students obtain an in-depth knowledge in derivatives pricing by using continuous-time concepts of modern finance theory. They apply them to equity and other securities. Having completed this module, students approach the literature in this field successfully, develop and analyze advanced pricing models, and apply continuous-time techniques for arbitrary derivatives pricing challenges.

## B402 Financial Statement Analysis

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (120 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Dr. Margarita Mejia Likosova

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module of financial statement analysis starts introducing the need for reporting of financial information and integrating the agency problem, the users, sources and limitations of financial information, the basic analysis tools, and the role of IFRS and consolidated accounts. This introduction is followed by a comprehensive study and interpretation of the main financial statements. The module concludes with the analysis of the financial position of a firm, the management of current capital and the firm's profitability.

### Objectives

Students understand, analyse and interpret the financial statements of the companies (balance sheet, profit and loss statement, annual report, statement of changes in equity and statement of cash flows) in order to make intelligent investment decisions.

## B403 Topics in International Financial Reporting and Risk Management

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Dr. Margarita Mejia Likosova

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module of advanced topics in international financial reporting and risk management explains and connects the following concepts: financial scandals, earnings management, agency theory, information asymmetry, IFRS, properties of financial information, role of external auditors, diversifiable versus market risk, market efficiency and crisis. Students will be introduced to the current state of empirical/theoretical literature that links financial reporting and risk management.

### Objectives

This module responds in particular to the increasing need of future managers in finance but also in other disciplines and working in a global economy, to understand financial reports and evaluate them in terms of risks. Students develop a global perspective about the role of financial reporting for risk management within the firm and the market. At the end of this module students understand the reasons behind some of the current financial reporting requirements and, based on relevant empirical/theoretical research, can reflect upon the success of the implementation of those requirements. Students present and discuss the research question and their analysis to an academic audience, they react to and incorporate new ideas, feedback and critique.

## B404 Modern Issues in Finance 1

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Course Language</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS)/ Independent Study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam or oral examination, or assignments or presentation - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Christian Koziol

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module enables students to extend their knowledge in selected areas of advanced finance by choosing appropriate courses. These courses deal with various aspects of portfolio management, asset pricing, corporate finance and risk management.

### Objectives

Students develop in-depth knowledge of advanced finance concepts. They are able to apply these concepts to arbitrary securities classes in the context of modern finance challenges. Having completed this module, students approach the literature in this field successfully and are able to develop, control and evaluate advanced problems in finance.

## B405 Modern Issues in Finance 2

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Course Language</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS)/ Independent Study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam or oral examination, or assignments or presentation - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Christian Koziol

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module enables students to extend their knowledge in selected areas of advanced finance by choosing appropriate courses. These courses deal with various aspects of portfolio management, asset pricing, corporate finance and risk management.

### Objectives

Students develop in-depth knowledge of advanced finance concepts. They are able to apply these concepts to arbitrary securities classes in the context of modern finance challenges. Having completed this module, students approach the literature in this field successfully and are able to develop, control and evaluate advanced problems in finance.

# B411 Theorie der Bank

Theory of Banking

M.Sc.

<b>ECTS-Punkte</b>	9
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 75      Selbststudium: 195
<b>Dauer</b>	1 Semester
<b>Turnus</b>	SS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (3 SWS), Übung (2 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium, Literaturstudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (90 Minuten) oder mündliche Prüfung - 9 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	B270 Investition und Finanzierung, E170 Mikroökonomik
<b>Verantwortlicher</b>	Prof. Dr. Werner Neus

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Grundlagenbereich Finance, Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Grundlagenbereich Schwerpunkt Business and Economics, Wahlbereich
<i>Economics</i>	Vertiefungsbereich Economics, Econometrics, Finance, Freier Wahlbereich
<i>Economics and Finance</i>	Vertiefungsbereich Finance, Freier Wahlbereich
<i>European Economics</i>	Vertiefungsbereich Schwerpunkt Finance, Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich Banking Grundlagenmodul, Vertiefungsbereich Banking, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Aufbauend auf den institutionellen Gegebenheiten im Bankensektor stehen die theoretische Analyse von Finanzkontrakten sowie die Fundierung der institutionellen Rahmenbedingungen im Vordergrund. Unter Verwendung von mikroökonomischen Modellen wird das Verhalten von Finanzintermediären erklärt. Der erste Teil umfasst die Erklärung für die Existenz von Banken. Der zweite Teil hat das Bankverhalten im Kredit- und Einlagengeschäft zum Gegenstand. Der dritte Teil ist der theoretischen Analyse der Bankenstabilität und Bankenregulierung gewidmet. Die Berücksichtigung asymmetrisch verteilter Informationen nimmt jeweils eine zentrale Rolle ein. Die Übung vertieft und erweitert die Vorlesungsinhalte theoretisch, v. a. aber praktisch. Anhand zahlreicher Fallbeispiele werden ausgewählte Probleme dargestellt und deren Lösungen erarbeitet.

## Qualifikationsziele

Die Absolventen/innen sind in der Lage, durch den Erwerb kritischen Wissens und analytischer Methoden wichtige bankwirtschaftliche Problemfelder zu untersuchen und künftige bankwirtschaftliche Entwicklungen zu bewerten. Zudem entwickeln sie selbstständig Lösungen isolierter bankpraktischer Entscheidungsprobleme und können Handlungsmöglichkeiten und Entscheidungen der Bankenaufsicht bewerten.



## B412 Bank Management

M.Sc.

ECTS-Credits	6
Workload Hours	Contact Hours: 60      Independent Study: 120
Duration	1 Semester
Cycle	WS
Language of instruction	English
Course Type/ Learning Methods	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
PhD-oriented	no
Method of Assessment	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
Course Work	---
Prerequisite for	---
Prerequisites	B130 Cost Accounting, B270 Investment and Finance
Person Responsible	Prof. Dr. Jan Riepe

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The module deals with the specific methods of managerial accounting and risk management in banks. Thereby, topics related to value maximizing management of internal processes as well as to the link between risk management and managerial accounting. Furthermore, the module covers recent trends in the design of internal governance mechanisms in banks. The module is accompanied by exercise sessions.

### Objectives

At the end of the module, the students are enabled to select profitable investment projects of a bank based on the bank's business objectives combined with the risk-return trade-off. They know to conduct a capital allocation process inside a banking group, to quantify the underlying risk with an appropriate method, and to evaluate the design of internal business processes according to regulatory requirements and good governance principles.

## B413 Empirical Banking

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Colloquium (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation (50%), Term Paper (50%) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jan Riepe

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Core Studies Finance, Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking Core Module, Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The module gives a survey of important topics in empirical banking. As examples, the conflicts of interest between loan officers and the overall bank management, the influence of prudential regulation on the reporting behavior and the impact of different ownership structures of the banks' corporate governance can be mentioned.

### Objectives

The module is intended to give the students a broad overview concerning the the relevant questions in the Empirical Banking literature and to convey the basic principles of writing research oriented essays. After having attended the module, students describe the current state of research in the area of empirical banking, empirical bank management and risk governance. They use appropriate data, collection methods, and analyze data with appropriate tools. Furthermore, they understand and evaluate the current literature, ideas, topics, theories, open questions in this area.

Students formulate Empirical Banking research question and address and analyze the research question in a academic thesis. Students present and discuss the research question and their analysis to an academic audience, they react to and incorporate new ideas, feedback and critique.

## B414A CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation

B.Sc./M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Ted Azarmi, PhD

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module covers the material for one of the three CFA® levels. Standards of practice, detailed finance, accounting, and security valuation tools are included. The curriculum, in class mock exams and the final exam resemble a portion of the respective CFA® level exam. Each level is offered triennially, for detailed information please have a look at Campus or chair homepage.

### Objectives

Students complement their German business education by US-oriented business coverage which provides a truly international perspective. They understand that CFA's code of ethics and rigorous problem-solving oriented approach provides an edge in the finance industry. Students develop a solid foundation that helps them to succeed in CFA® exams and to eventually achieve the CFA® designation which is a highly regarded professional distinction in business.

## B414B CFA® Level I-III: Security Valuation - Chartered Financial Analysts® Preparation

B.Sc./M.Sc.

<b>ECTS-Credits</b>	12
<b>Workload Hours</b>	Contact Hours: 120    Independent Study: 240
<b>Duration</b>	2 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (each 2 SWS), Tutorial (each 2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 12 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Ted Azarmi, PhD

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module covers the material for two of the three CFA® levels. Standards of practice, detailed finance, accounting, and security valuation tools are included. The curriculum, in class mock exams and the final exam resemble a portion of the respective CFA® level exam. Each level is offered triennially, for detailed information please have a look at Campus or chair homepage.

### Objectives

Students complement their German business education by US-oriented business coverage which provides a truly international perspective. They understand that CFA's code of ethics and rigorous problem-solving oriented approach provides an edge in the finance industry. Students develop a solid foundation that helps them to succeed in CFA® exams and to eventually achieve the CFA® designation which is a highly regarded professional distinction in business.

# B416 Rechnungslegung von Finanzinstrumenten

Accounting for Financial Instruments

M.Sc.

<b>ECTS-Punkte</b>	6
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 30      Selbststudium: 150
<b>Dauer</b>	1 Semester
<b>Turnus</b>	WS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung und Übung (2 SWS) / Mitarbeit, Gruppendiskussion, Selbststudium, Literaturstudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (90 Minuten), Hausarbeit - 6 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	---
<b>Verantwortlicher</b>	Prof. Dr. Mathias Schaber, Dr. Joachim Brixner

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich Banking, Vertiefungsbereich Finance, Vertiefungsbereich Industrial Organizations, Vertiefungsbereich Marketing, Vertiefungsbereich HRM and Organization, Vertiefungsbereich Managerial Accounting, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Das Modul behandelt die handelsrechtlich zu beachtenden Besonderheiten der Banken (HGB, Rechnungslegungsverordnung für Kredit- und Finanzdienstleistungsinstitute (RechKredV)) sowie die Regeln zur Bewertung und Ausweis von Finanzinstrumenten nach IFRS (branchenunabhängig). Behandelt werden u.a. auch Themen wie Hedge Accounting nach IFRS und Bewertungseinheiten nach § 254 HGB. Integriert in die Veranstaltung sind viele Übungen anhand praxisnaher Fallstudien.

## Qualifikationsziele

Die Absolventen/innen des Moduls sind in der Lage, Probleme der Rechnungslegung von Finanzinstrumenten zu analysieren. Durch die Anfertigung einer Hausarbeit können die Absolventen/innen Zusammenhänge analysieren und besprochene Konzepte bewerten. Sie sind befähigt, handelsrechtliche Vorgaben zur Bankbilanzierung einzuordnen und können Posten der Bankbilanz darstellen. Zudem können sie die Besonderheiten des Handelsbestandes und anderer Bewertungsvorschriften erklären, IFRS-Vorgaben zur Bilanzierung von Finanzinstrumenten beschreiben und Finanzinstrumente definieren. Des Weiteren können Studierende das Hedge Accounting erläutern sowie analysieren und können relevante Bewertungseinheiten im Bereich der Rechnungslegung von Finanzinstrumenten darstellen. Studierende können Finanzinstrumente nach IFRS kategorisieren, bewerten, ausweisen und ausbuchen.

# B417 Sustainable Finance

Sustainable Finance

M.Sc.

<b>ECTS-Punkte</b>	6
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 30      Selbststudium: 150
<b>Dauer</b>	1 Semester
<b>Turnus</b>	SS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (2 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium, Literaturstudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur - 6 ECTS / 100% of module grade
<b>Studienleistung</b>	Hausarbeit
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	---
<b>Verantwortlicher</b>	Dr. Max Weber

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich Banking, Vertiefungsbereich Finance, Vertiefungsbereich Industrial Organizations, Vertiefungsbereich Marketing, Vertiefungsbereich HRM and Organization, Vertiefungsbereich Managerial Accounting, Freier Wahlbereich
<i>Management &amp; Economics</i>	Vertiefungsbereich, Freier Wahlbereich

## Inhalt

Es werden zunächst Grundlagen des Nachhaltigen Finanzwesens und dessen Komponenten erläutert und eine Definition von Sustainable Finance erarbeitet. Im Nachgang hierzu werden Chancen und Risiken, die durch den Klimawandel entstehen, untersucht. Die Vorlesung nimmt zudem Bezug auf regulatorische Aspekte sowie die Rolle der Zentralbanken. Zuletzt werden die Auswirkungen des Klimawandels auf Bankenebene analysiert. Absolventen/innen fertigen eine Hausarbeit an, in welcher Sie gelernte Konzepte hinterfragen und erweitern.

## Qualifikationsziele

Die Absolventen/innen können die Auswirkungen des Klimawandels auf die Finanzindustrie und die Finanzmärkte bewerten. Durch die Ausarbeitung einer Hausarbeit sind die Absolventen/innen in der Lage die besprochenen Konzepte zu hinterfragen und zu erweitern. Sie können mit dem Klimawandel verbundene Chancen und Risiken beschreiben und deren makro- und mikroökonomische Wirkungsketten analysieren. Des Weiteren lernen Absolventen/innen die verschiedenen Ansätze der Sustainable Finance Regulierung kennen und können Ansätze der Integration von ESG-Risiken in das Risikomanagement von Banken beurteilen.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (1 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments - 9 ECTS / 100% of module grade
<b>Course Work</b>	Presentation
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Marketing Core Module, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

This module covers key concepts of marketing, the implementation in the marketing mix, its internationalization, and empirical generalizations.

- (1) Product management
- (2) Pricing
- (3) Communication management
- (4) Distribution management
- (5) Branding
- (6) Optimization
- (7) International Marketing

---

**Objectives**


---

Students understand and evaluate key concepts and advanced aspects regarding the implementation and optimization of marketing mix elements. Through participation in the tutorial, students will understand how to apply academic literature from peer-reviewed journals to current problems of marketing.

## B421 eBusiness

eBusiness

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module covers the analysis of specific market conditions in electronic marketplaces (e.g., lower search cost, information asymmetry, lower marginal cost).

1. The electronic market place
2. How digitization affects the marketplace
3. Marketing-mix instruments in the online market place

### Objectives

Students can explain the relevance of digitization, e-commerce, and other online activities. Students can evaluate how digitization has changed the marketplace. Through the tutorial, students know how to apply marketing instruments on problems from the online domain.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam or oral examination, or assignments or presentation or online assessment - 6 ECTS / 100% of module grade
<b>Course Work</b>	assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Jun.-Prof. Dr. Wiebke Keller

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

Students extend their knowledge in selected areas of marketing, advanced marketing research, or related areas of data science by choosing appropriate courses. These courses cover elements of the marketing mix, and they may involve aspects of data collection, advanced techniques of analysis and estimation, writing and understanding statistical code, and the application to marketing problems.

**Objectives**

Students can analyze and solve advanced marketing and marketing research problems. Students know how to choose and apply appropriate tools for solving advanced problems in marketing and marketing research, and they can draw on recent advances in data science where appropriate. They can reflect upon the appropriateness of different approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS)/ Discussion, oral participation, independent study, literature study, coding
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam or oral examination, or assignments or presentation or online assessment - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Jun.-Prof. Dr. Wiebke Keller

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

Students extend their knowledge in selected areas of marketing, advanced marketing research, or related areas of data science by choosing appropriate courses. These courses cover elements of the marketing mix, and they may involve aspects of data collection, advanced techniques of analysis and estimation, writing and understanding statistical code, and the application to marketing problems.

**Objectives**

Students can analyze and solve advanced marketing and marketing research problems. Students know how to choose and apply appropriate tools for solving advanced problems in marketing and marketing research, and they can draw on recent advances in data science where appropriate. They can reflect upon the appropriateness of different approaches.

## B430A Managerial Accounting and Cost Analysis

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS)/ Discussion, Oral participation, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Specialization International Accounting, Auditing and Corporate Governance, Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module provides an overview on the main applications, tasks and instruments of managerial accounting and cost analysis. Topics include, for instance, variance analysis, break-even analysis, target costing, budgeting, transfer pricing, production program planning, the value of information systems, and decision-making under uncertainty.

### Objectives

Students learn and understand the basic framework of managerial accounting and cost analysis. They know the core accounting instruments and are able to evaluate differences between these instruments. They are able to critically analyze the differences between decision-making under certainty and under uncertainty. Students are also able to explain and reflect the underlying behavioral problems that are inherent to the tools used in managerial accounting. In the accompanying practice course, students will develop solutions to these problems and apply them to organizational problem settings.

## B430B Managerial Accounting and Cost Analysis

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS), Colloquium (1 SWS)/ Discussion, Oral participation, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Case Study / Term Paper
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Core Studies Accounting, Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Managerial Accounting Core Module, Specialization Industrial Organizations, Specialization International Accounting, Auditing and Corporate Governance, Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module provides an overview on the main applications, tasks and instruments of managerial accounting and cost analysis. Topics include, for instance, variance analysis, break-even analysis, target costing, budgeting, transfer pricing, production program planning, the value of information systems, and decision-making under uncertainty.

## Objectives

---

Students learn and understand the basic framework of managerial accounting and cost analysis. They know the core accounting instruments and are able to evaluate differences between these instruments. They are able to critically analyze the differences between decision-making under certainty and under uncertainty. Students are also able to explain and reflect the underlying behavioral problems that are inherent to the tools used in managerial accounting. In the accompanying practice course, students will develop solutions to these problems and apply them to organizational problem settings.

In the accompanying colloquium, students learn how to apply the concepts learned in the lecture to real-life business problems of firms by the means of case studies. Students work in student teams and take on the role of real decision makers. They are able to discuss specific managerial decision problems, apply concepts of managerial economics to the problem set and develop appropriate solutions. Students evaluate different decision alternatives and present their solutions to the audience.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Discussion, Oral participation, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization HRM and Organization, Specialization Managerial Accounting, Free Elective Studies
<i>Management &amp; Economics</i>	---

**Content**

Firms need to react to recent developments in corporate governance, global competition, and continuous technological change by adjusting their internal management systems and their organizational structure. This module provides a multidisciplinary approach to managerial and organization economics, with a special focus on value creation, incentive systems, behavioral economics and other-regarding preferences, and the internal organization of firms. The module is centered around the question how organizations can create value through improved organizational design and an efficient use of management practices.

**Objectives**

Students learn how to use and implement accounting information for efficiently designing and operating an organization. They are able to assess which behavioral reactions are triggered by the use of a series of management practices. Further, they are able to explain the underlying principal-agent problem and are to reflect modifications of contract theoretical models. They understand the role of incentive and performance management systems for firms and are able to critically evaluate the use of these systems. The goal in this module is to develop rigorous frameworks to enable students to apply them to real-life problems. In the accompanying practice course, students will develop solutions to these problems and apply them to organizational problem settings.

## B432B Organizational Economics

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 75      Independent Study: 195
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS), Colloquium (1 SWS)/ Discussion, Oral participation, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Presentation
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization HRM and Organization, Specialization Managerial Accounting, Free Elective Studies
<i>Management &amp; Economics</i>	Core Studies

### Content

Firms need to react to recent developments in corporate governance, global competition, and continuous technological change by adjusting their internal management systems and their organizational structure. This module provides a multidisciplinary approach to managerial and organization economics, with a special focus on value creation, incentive systems, behavioral economics and other-regarding preferences, and the internal organization of firms. The module is centered around the question how organizations can create value through improved organizational design and an efficient use of management practices.

### Objectives

Students learn how to apply the concepts learned in the lecture to real-life problems in organizations. Students analyze case studies involving real firms and research papers in teams and learn how to present, critically reflect and discuss their findings. In addition to the written exam accompanying the lecture, the colloquium focuses on presentation and communication skills. In the case studies, students take on the role of real managers and learn how to analyze critical situations and develop and implement solutions to the problems evolved.

## B434 Managerial Accounting: Control Systems, Top Executives, and Ethics

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Managerial Accounting, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module provides a multidisciplinary approach to the concepts of management and control, top executive compensation, and ethics in accounting. In detail, the module covers issues such as the design and evaluation of management control systems, fundamental issues on top management incentives and characteristics (compensation, pay-for-performance sensitivity, leadership styles, careers, etc.). Furthermore, the module introduces good corporate governance with a specific focus on the role of controllers and auditors and ethical dilemmas such as the manipulation of key performance indicators, gaming incentive systems, organizational misbehavior and management fraud.

### Objectives

Students learn how to use management control systems for operating an organization and how to critically assess the interdependencies between control systems, executive compensation and corporate governance and apply this to real-life problems. The goal of the module is to develop a rigorous framework and to apply this to ethical dilemmas that can be observed in real-world firms. Students also improve their analytical and discussion skills with respect to scientific papers. In the accompanying practice course, students will develop solutions to these problems and apply them to organizational problem settings.



## B440 Personnel Economics

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 75      Independent Study: 195
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	further courses in the area of Personnel Economics
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Kerstin Pull

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization HRM and Organization Core Module, Specialization Managerial Accounting, Free Elective Studies
<i>Management &amp; Economics</i>	Core Studies

### Content

This module analyzes HR from a strategic perspective, i.e., HR is regarded as a potential driver of firm performance. Personnel economics focuses on the economics of HR and thus complements other, e.g., sociological or psychological approaches to HR that students might be familiar with. In the module, we analyze different HR functions (e.g., recruitment, training, compensation & benefits, promotion, dismissal) and focus on problems associated with informational asymmetries and how these might be solved. Methodologically, the module is based on formal theoretical models as well as on quantitative empirical studies with field and laboratory data. In the accompanying tutorial, the material is practiced and deepened on the basis of selected exercise questions.

### Objectives

Students understand the principles and main concepts of personnel economics and develop a strategic perspective to HR and how it contributes to firm performance. They identify problems in HR that are associated with informational asymmetries and use analytical tools to analyze and address these. Students understand and interpret quantitative empirical findings and relate these to the theoretical models that build the foundation of personnel economics.

## B441 Comparative Employment Relations

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Case Study (1 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Case Study (Group) Presentation
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Kerstin Pull

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The module covers different topics in employment relations from a comparative perspective. Among others, it is analyzed how different national institutions (e.g. minimum wages, employment protection legislation, collective bargaining institutions or education systems) affect the behavior of workers and firms in imperfect labor markets. Further, the module also covers cultural differences and how these affect the HR practices of national and multinational firms.

### Objectives

Students learn how the institutional and cultural environment shapes employment relations and how these links are analyzed theoretically and empirically. Within their (group) presentations, students describe and analyze a case study of a multinational firm and its HR practices and present their insights to their fellow-students.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ participation, group discussion, self-study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Assignment
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Students should have a general understanding of business strategies as taught in a business or economics bachelor programme. Specifically, students should be familiar with net present value concepts.
<b>Person Responsible</b>	Prof. Dr. Martin Ruf

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	Core Studies Accounting, Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business Taxation Core Module, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

This module focuses on the effects of taxation on essential corporate decisions, namely, investment, financing, acquisitions or the choice of the appropriate legal form. Since specific tax law is not the main part of this approach, the module can be chosen even by students without an in-depth knowledge in tax law. Nonetheless, it provides a broad framework for understanding how taxation affects corporate decision-making. No specific prerequisites are required.

---

**Objectives**


---

Students assess the enormous impact that changes in transaction structure have on after-tax cash flows and to integrate tax strategies into the bigger picture of corporate decision making. They explain the competitive advantage of certain tax strategies for corporations. As a side effect, students will be faced with basic tax law principles and, thereby, will broaden their knowledge about legal issues.

# B451 Unternehmensbesteuerung

Business Taxation

M.Sc.

<b>ECTS-Punkte</b>	9
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 60      Selbststudium: 210
<b>Dauer</b>	1 Semester
<b>Turnus</b>	WS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (2 SWS), Übung (2 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (60 Minuten) - 9 ECTS / 100% of module grade
<b>Studienleistung</b>	Fallstudie
<b>Voraussetzung für</b>	B452
<b>Teilnahmevoraussetzungen</b>	---
<b>Verantwortlicher</b>	Prof. Dr. Martin Ruf

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Business Taxation, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Im Modul Unternehmensbesteuerung wird die Ertragsbesteuerung der Einzelunternehmer, Personengesellschaften und Kapitalgesellschaften dargestellt. Die Teilnehmer beschäftigen sich mit der Ertragsbesteuerung der Konzerne und von Umstrukturierungen.

## Qualifikationsziele

Die Teilnehmer unterscheiden die Instrumente der wichtigsten Steuern, denen sich Unternehmen gegenübersehen. Die Teilnehmer erklären die Systematik der Unternehmensbesteuerung. Die Teilnehmer beurteilen die ökonomischen Wirkungen der Unternehmensbesteuerung, also insbesondere den Einfluss dieser Steuern auf wirtschaftliche Entscheidungen und die Steuerbelastung der Unternehmen.

# B452 Internationale Unternehmensbesteuerung

International Business Taxation

M.Sc.

<b>ECTS-Punkte</b>	6
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 30      Selbststudium: 150
<b>Dauer</b>	1 Semester
<b>Turnus</b>	SS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (2 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (60 Minuten) - 6 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	B451 oder ähnliche Vorkenntnisse
<b>Verantwortlicher</b>	Prof. Dr. Martin Ruf

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Business Taxation, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Das Modul Internationale Unternehmensbesteuerung geht auf die Grundzüge der Internationalen Unternehmensbesteuerung ein. Es wird die Besteuerung der Inlandsinvestitionen ausländischer Unternehmen und die Besteuerung der Auslandsinvestitionen inländischer Unternehmen dargestellt. Weiter werden Fragen der internationalen Gewinnabgrenzung und der Umstrukturierung von Auslandsinvestitionen problematisiert.

## Qualifikationsziele

Die Teilnehmer erklären die Grundlagen internationaler Besteuerung (Nationales Recht/DBA/EU-Recht) und die Ursachen der Doppelbesteuerung. Die Teilnehmer können die unterschiedlichen steuerlichen Folgen der Begründung von Betriebsstätten oder Tochterkapitalgesellschaften im In- und Ausland beurteilen. Die Teilnehmer stellen die Bedeutung der Regeln der internationalen Gewinnabgrenzung für die Steuerbelastung der Unternehmen dar.

# B455 Steuerrecht: Abgabenordnung, Umsatzsteuer und Gewerbesteuer

Tax Law: General Tax Code, Value-Added Tax and Local Business Tax

M.Sc.

<b>ECTS-Punkte</b>	9
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 30      Selbststudium: 240
<b>Dauer</b>	1 Semester
<b>Turnus</b>	WS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	3 Vorlesungen à 1 SWS/ Mitarbeit, Gruppendiskussion, Selbststudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (60 Minuten) - 9 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	B451 Unternehmensbesteuerung; B452 Internationale Unternehmensbesteuerung; B457 M&A Tax
<b>Verantwortlicher</b>	Prof. Dr. Martin Ruf

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Business Taxation, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Die Studierenden besuchen die Vorlesungen

1. Steuerrecht III Abgabenordnung/Finanzgerichtsordnung
2. Steuerrecht IV Umsatzsteuerrecht
3. Steuerrecht VI Gewerbesteuer und Bewertung

die von der juristischen Fakultät im Schwerpunktbereich 6 Steuerrecht <[http://www.jura.uni-tuebingen.de/professoren\\_und\\_dozenten/seiler/schwerpunktbereich-6](http://www.jura.uni-tuebingen.de/professoren_und_dozenten/seiler/schwerpunktbereich-6)> angeboten werden. Details zu den Modulen der juristischen Fakultät entnehmen Sie bitte dem Vorlesungsverzeichnis der Universität. Der LS BWL Steuerlehre Ruf bietet eine einleitende Kick-Off Veranstaltung in der 1. Vorlesungswoche an und stellt zu den üblichen Klausurenzeiten eine Klausur. Die Anmeldung für das Modul findet in der Kick-Off Veranstaltung statt.

## **Qualifikationsziele**

---

Die Teilnehmer erwerben grundlegendes Wissen für die Steuerberatung. Sie vollziehen dabei die wesentlichen Bestandteile der Abgabenordnung, der Umsatzsteuer sowie der Gewerbesteuer nach. Des Weiteren führen sie juristische Bearbeitungen von Fragestellungen durch, die in der Berufspraxis u.a. bei der Erstellung von Gutachten eingesetzt werden.

## B457 M&A Tax

M&A Tax

M.Sc.

<b>ECTS-Punkte</b>	6
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 30      Selbststudium: 150
<b>Dauer</b>	1 Semester
<b>Turnus</b>	SS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (2 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Klausur (60 Minuten) - 6 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	B451 oder ähnliche Vorkenntnisse
<b>Verantwortlicher</b>	Prof. Dr. Martin Ruf

### Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Business Taxation, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

### Inhalt

Das Modul M&A Tax behandelt die Grundzüge der steuerlichen Aspekte von Unternehmenstransaktionen. Es wird die Besteuerung von Unternehmenskäufen und –verkäufen sowie Unternehmensumwandlungen und –umstrukturierungen dargestellt. Einführend werden steuerliche Ziele und Gründe von M&A-Transaktionen diskutiert. Im Anschluss werden die verschiedenen Vorgänge des deutschen Umwandlungssteuergesetzes im Einzelnen behandelt. Der Besuch des Moduls setzt im Modul Unternehmensbesteuerung erworbene Vorkenntnisse voraus.

### Qualifikationsziele

Die Teilnehmer stellen die steuerlichen Grundlagen und Ziele von M&A-Transaktionen dar. Die Teilnehmer erläutern die Systematik des deutschen Umwandlungs- und Umwandlungssteuergesetzes und können die verschiedenen Umwandlungsvorgänge steuerlich beurteilen. Besonderes Gewicht wird auf mögliche Gestaltungen zur Steueroptimierung von M&A-Transaktionen gelegt.



## B460 Sustainable Strategy

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS) / Oral participation, Literature Studies
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Philip Yang

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module aims at improving the understanding of contemporary research in the field of sustainable strategy with respect to the triple bottom line of economic, environmental, and social sustainability. Equally, theoretical and empirical advancements in this literature are discussed in detail. The students develop own management summaries in groups that draw from recent research to provide practical implications with respect to one sustainability-related topic.

### Objectives

The students understand recent theoretical and empirical literature in the field of sustainable strategy. Further, they develop an understanding of scientific research papers in the area of economics and management and are able to transfer these to a practitioner oriented management summary.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS) / Oral participation, Literature Studies
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Stata log file - 6 ECTS / 100% of module grade
<b>Course Work</b>	Presentation
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Basic econometric knowledge and Stata experience are advantageous
<b>Person Responsible</b>	Prof. Dr. Philip Yang

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

This interactive module starts with a brief introduction on conceptual methods, hypotheses development, data collection, causal inference, and econometrics in the context of research on sustainable strategy. In the main part, the students have to develop an own conceptual model, collect own or clean existing datasets (e.g. EIKON, ASSET4, BOARDEX, GSOEP, Company data) in order to answer a self-elaborated research questions. The research questions should address one of the many areas of strategic strategy with respect to the triple bottom line of economic, environmental and social sustainability.

**Objectives**

The students formulate an own research question and develop an own conceptual model in the abovementioned fields. Further, they use datasets to answer these questions empirically. Hereby, they follow a typical scientific approach that starts with the formulation of a question, developing a conceptual model, presenting it in front of an audience, searching and cleaning adequate datasets for an empirical analysis, and finally using econometric methods to empirically test the conceptual model.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	generally: WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Seminar (2 SWS) Oral participation, Group discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: In-class participation - 9 ECTS / 100% of module grade
<b>Course Work</b>	Short tests, prep notes for class
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Registration via ILIAS
<b>Person Responsible</b>	Asst.-Prof. Dr. Theresa Veer

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

---

**Content**


---

This module looks at firms' strategies particularly from an innovation viewpoint, including aspects evolving around R&D, corporate entrepreneurship, IP management, IP strategy, industry lifecycles, industry evolution, etc. It also deepens students' knowledge on the very basics of strategy analysis, development, and implementation. In the case study seminar the lecture's content will be applied to case studies.

## Objectives

---

Students reflect on and analyze the factors that affect organizations' long-term economic performance based on commonly used tools and frameworks to make recommendations to organization on how they can improve their long-run performance.

The module highlights and emphasizes the appliance of learned tools and frameworks, so as to enable the students to:

- evaluate the structure of firms' external environments and analyze how these affect expected long-run industry performance
- evaluate firm-level resources and capabilities
- develop suitable and superior strategies at the business-unit and corporate levels
- assess how social, technological, political, and economic factors and forces can influence and determine the necessity for strategic (re-)positioning
- comprehend, analyze, and manage the complex ethical and social issues organizations face as they develop and implement their strategies
- discuss their analyses within the class; react to and incorporate new ideas, feedback, and critique.

# B463B Businesspläne für Startups

Business Plans for Startups

M.Sc.

<b>ECTS-Punkte</b>	9
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 60      Selbststudium: 210
<b>Dauer</b>	1 Semester
<b>Turnus</b>	SS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Seminar (4 SWS) Präsentationen, Gruppenarbeit, Feedback-Sessions
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Referat, Schriftliche Arbeit - 9 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	Minimum German skills of B2 in written and spoken language
<b>Verantwortlicher</b>	Asst.-Prof. Dr. Theresa Veer

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich Industrial Organizations, Vertiefungsbereich Marketing, Freier Wahlbereich
<i>Management &amp; Economics</i>	Vertiefungsbereich, Advanced Topics in Management and Economics, Freier Wahlbereich

## Inhalt

Dieser Kurs thematisiert die grundlegenden Bausteine für das Aufsetzen eines Businessplans und das Gründen eines Startups. Er ist besonders interessant für diejenigen Studierenden, die ein Interesse daran haben, ihr eigenes Startup zu gründen oder durch einen Hands-on-Ansatz die zentralen Bestandteile der Unternehmensgründung zu lernen.

Der Kurs bringt zukünftige Gründer und Gründerinnen, die ihre Startupidee zur Verfügung stellen, mit Studierenden vornehmlich der Wirtschaftswissenschaften zusammen. Die Studierenden stehen den zukünftigen Gründern und Gründerinnen in diesem interaktiven Kurs das Semester über beratend zur Seite.

Die Dozentin agiert als Moderatorin während des Aufsetzens des Businessplans und Vorbereitung sowie Ablieferung eines Pitches.

## Qualifikationsziele

---

Die Studierenden können die einzelnen Schritte der Unternehmensgründung wiedergeben und können in eigenen Worten erklären, wie diese miteinander in Beziehung stehen. Dieses Wissen nutzen sie als Grundlage, um ihren Businessplan selbstständig zu erstellen. Sie sind in der Lage, sich komplexe Sachverhalte selbst zu erarbeiten und können diese so nachvollziehen, bewerten und Nicht-Experten gegenüber erklären, dass sie sie für die Erstellung ihrer Präsentationen und ihres Businessplans anwenden können. Dabei sind sie eigenständig fähig, eventuell notwendige Anpassungen vorzunehmen und Entscheidungen zu fällen und können diese begründen.

Während der Präsentationen sind die Studierenden in der Lage, ihre Präsentations- und Diskussionszeit selbst zu managen, ohne die vorgegebene Zeit zu überschreiten.

## B464 Financial Institutions in the "New Normal"

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	2 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS) / Oral participation Literature Studies
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Monika Gehde-Trapp

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

In this course, students acquire knowledge about

- current economic challenges for financial institutions due to the low interest rate environment, digitalization-driven innovations such as cryptocurrencies and smart contracts as well as social transformation processes with regard to sustainability.
- current regulatory challenges for financial institutions such as Basel IV, IFRS 9 and 13, MARisk, EMIR and MiFID
- the impact of these challenges on business models, corporate governance, processes and methods.

## Objectives

---

Students will

- know the regulatory environment of financial institutions
- understand, describe verbally and in writing and critically reflect on the changing regulatory environment
- know, describe verbally and in writing and critically reflect on the impact of digitalization on the business models of financial institutions
- know, verbally and in writing and critically reflect on the impact of sustainability requirements on financial institutions
- analytically and empirically assess the impact of regulatory, economic and social transformation processes on the strategy and risk management of financial institutions



## B465 Specialization in Economic Research

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS or SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (1 SWS), Seminar (1 SWS) Presentation or literature review, discussion, self studies
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	Diskussion, Literaturarbeit
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Asst.-Prof. Dr. Jan Riepe & Asst.-Prof. Dr. Theresa Veer

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module explores in depth relevant topics for research in business and economics. The following topics will be covered in the course:

1. theory / research design
2. empirical research methods
3. research ethics

### Objectives

After successful completion of the module, students will be able to critically analyze, question and evaluate individual research papers. In addition, they will be able to classify work within the existing scholarship.

In case of the examination form presentation, students additionally present their results to a critical audience and learn to discuss them and to react constructively to criticism.

In case of the examination form term paper, students additionally learn to express their results coherently in writing and to present their ideas and criticism convincingly on the basis of their own reviews, analyses and links to the research canon.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	generally: WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture with integrated Colloquium (4 SWS) / Independent Study Literature Studies
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation, Assignment, Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Monika Gehde-Trapp

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

In this course, students acquire knowledge of

- the theoretical foundations of financial intermediation,
- the different groups of financial institutions such as banks, asset managers, venture capitalists, broker/dealers, stock exchanges, rating agencies, fintechs and their functions as intermediaries,
- the management and governance of financial institutions,
- the risks arising from intermediation,
- the regulation of financial institutions

## Objectives

---

After successful completion of this course, students

- know the theoretical foundations of financial intermediation and the role of different types of financial institutions.
- have an overview of the instruments used to provide intermediation services and the associated market volumes and market shares.
- identify management and governance problems in financial institutions and formulate solution strategies.
- identify different types of risk and calculate risk measures.
- understand the regulatory environment of financial intermediaries and the interplay between regulation and innovation.

# B480A Unternehmenspublizität und Märkte A

Accounting, Disclosures, and Markets A

M.Sc.

ECTS-Punkte	6
Arbeitsaufwand SWS	Kontaktzeit: 60      Selbststudium: 120
Dauer	1 Semester
Turnus	WS
Unterrichtssprache	Deutsch
Lehr- und Lernformen	Vorlesung (2 SWS), Übung (2 SWS)/ Mitarbeit, Selbststudium, Literaturstudium
PhD-orientiert	nein
Prüfungsleistung	Lecture: Klausur (60 Minuten) - 6 ECTS / 100% of module grade
Studienleistung	---
Voraussetzung für	---
Teilnahmevoraussetzungen	---
Verantwortlicher	Prof. Dr. Jörg-Markus Hitz

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Vertiefungsbereich Schwerpunkt Business and Economics, Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Business Taxation, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Ziel der Veranstaltung ist es, umfassend die Praxis und Regulierung der finanziellen und nicht-finanziellen Berichterstattung kapitalmarktorientierter Unternehmen zu strukturieren, zu schildern und ökonomisch zu reflektieren. Ein besonderes Augenmerk gilt unternehmerischen Publizitätsanreizen sowie der Rolle sogenannter Informationsintermediäre. Die ökonomischen Effekte von Publizität für Kapital-, Güter- und Arbeitsmärkte werden konzeptionell erarbeitet und anhand empirischer Befunde veranschaulicht.

## Qualifikationsziele

Studierende können die Aufstellungs-, Prüfungs- und Offenlegungsvorschriften zur periodischen wie anlassbezogenen Berichterstattung kapitalmarktorientierter Unternehmen anwenden. Auf Grundlage ökonomischer Theorien sowie empirischer Studien reflektieren sie kritisch die ökonomische Rolle von finanzieller und nicht-finanzieller Publizität insbesondere für den Kapitalmarkt. Sie analysieren kontemporäre wissenschaftliche Studien und wenden diese auf unternehmenspraktische Fragestellungen an.

# B480B Unternehmenspublizität und Märkte B

Accounting, Disclosures, and Markets B

M.Sc.

<b>ECTS-Punkte</b>	9
<b>Arbeitsaufwand SWS</b>	Kontaktzeit: 75      Selbststudium: 195
<b>Dauer</b>	1 Semester
<b>Turnus</b>	WS
<b>Unterrichtssprache</b>	Deutsch
<b>Lehr- und Lernformen</b>	Vorlesung (2 SWS), Übung (2 SWS), Kolloquium (1 SWS)/ Mitarbeit, Gruppendiskussion, Selbststudium, Literaturstudium
<b>PhD-orientiert</b>	nein
<b>Prüfungsleistung</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Studienleistung</b>	---
<b>Voraussetzung für</b>	---
<b>Teilnahmevoraussetzungen</b>	---
<b>Verantwortlicher</b>	Prof. Dr. Jörg-Markus Hitz

## Dieses Modul kann innerhalb folgender Studiengänge belegt werden:

<i>Accounting and Finance</i>	Grundlagenbereich Accounting, Vertiefungsbereich, Wahlbereich
<i>Data Science in Business and Economics</i>	Grundlagenbereich Schwerpunkt Business and Economics, Vertiefungsbereich Schwerpunkt Business and Economics, Wahlbereich
<i>Economics</i>	Freier Wahlbereich
<i>Economics and Finance</i>	Freier Wahlbereich
<i>European Economics</i>	Wahlbereich
<i>European Management/ General Management/ International Business</i>	Vertiefungsbereich International Accounting, Auditing and Corporate Governance Grundlagenmodul, Vertiefungsbereich Banking, Vertiefungsbereich Managerial Accounting, Freier Wahlbereich
<i>Management &amp; Economics</i>	Freier Wahlbereich

## Inhalt

Ziel der Veranstaltung ist es, umfassend die Praxis und Regulierung der finanziellen und nicht-finanziellen Berichterstattung kapitalmarktorientierter Unternehmen zu strukturieren, zu schildern und ökonomisch zu reflektieren. Ein besonderes Augenmerk gilt unternehmerischen Publizitätsanreizen sowie der Rolle sogenannter Informationsintermediäre. Die ökonomischen Effekte von Publizität für Kapital-, Güter- und Arbeitsmärkte werden konzeptionell erarbeitet und anhand empirischer Befunde veranschaulicht.

## Qualifikationsziele

Studierende können die Aufstellungs-, Prüfungs- und Offenlegungsvorschriften zur periodischen wie anlassbezogenen Berichterstattung kapitalmarktorientierter Unternehmen anwenden. Auf Grundlage ökonomischer Theorien sowie empirischer Studien reflektieren sie kritisch die ökonomische Rolle von finanzieller und nicht-finanzieller Publizität insbesondere für den Kapitalmarkt. Sie analysieren kontemporäre wissenschaftliche Studien und wenden diese auf unternehmenspraktische Fragestellungen an.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS)/ Group discussion, presentation, independent study, literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg-Markus Hitz

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Accounting, Auditing and Corporate Governance, Specialization International Business Taxation, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In the light of current societal and environmental transformation processes, firms are facing two distinct challenges: adopting “sustainable” governance and business models, and complying with regulation such as mandatory non-financial reporting, sustainability requirements along supply chains, or inclusion of long-term non-financial KPIs into management compensation systems. This course introduces students to this contemporary view on corporate governance along three dimensions: economic analysis of corporate governance mechanisms and institutions, coverage of relevant legal and regulatory frameworks, and drawing insights from contemporary studies.

**Objectives**

Students are familiar with contemporary issues in sustainable corporate governance such as board diversity, NGO activism, or ESG ratings. They command a profound knowledge of managerial governance choices and regulatory frameworks, and understand how these potentially contribute to firms’ and society’s long-term objectives. Students are able to structure and evaluate complex governance-related issues in the context of findings from academic research.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 225
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Colloquium (1 SWS)/ Group discussion, presentation, independent study, literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg-Markus Hitz

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Accounting, Auditing and Corporate Governance, Specialization International Business Taxation, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In the light of current societal and environmental transformation processes, firms are facing two distinct challenges: adopting “sustainable” governance and business models, and complying with regulation such as mandatory non-financial reporting, sustainability requirements along supply chains, or inclusion of long-term non-financial KPIs into management compensation systems. This course introduces students to this contemporary view on corporate governance along three dimensions: economic analysis of corporate governance mechanisms and institutions, coverage of relevant legal and regulatory frameworks, and drawing insights from contemporary studies.

**Objectives**

Students are familiar with contemporary issues in sustainable corporate governance such as board diversity, NGO activism, or ESG ratings. They command a profound knowledge of managerial governance choices and regulatory frameworks, and understand how these potentially contribute to firms’ and society’s long-term objectives. Students are able to structure, evaluate and communicate complex governance-related issues in the context of findings from academic research.

## B482 Current Topics in Financial Accounting & Financial Analysis

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (1 SWS), Tutorial (1 SWS)/ Group discussion, presentation, independent study, literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written examination or presentation or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg-Markus Hitz

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Specialization International Accounting, Auditing and Corporate Governance, Specialization International Business Taxation, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This course, with varying emphases, acquaints students with current topics in Financial Accounting and Financial Analysis. Topics in Financial Accounting include complex accounting treatments under IFRS that are typically relevant to multi-national firms, e.g., accounting for business combinations and goodwill, impairment testing, accounting for employee benefits and stock options. Topics in Financial Analysis include accounting-based securities valuation and analysis of IFRS financial statements.

### Objectives

Upon completion of this course, students command profound knowledge of current topics in Financial Accounting and Financial Analysis, which they are able to apply to complex real-world cases.



## B483 Empirical Accounting Research

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS or SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (1 SWS), Tutorial (1 SWS)/ Group discussion, presentation, independent study, literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	B480 Unternehmenspublizität und Märkte
<b>Person Responsible</b>	Prof. Dr. Jörg-Markus Hitz

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Specialization International Accounting, Auditing and Corporate Governance, Specialization International Business Taxation, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This course introduces students to empirical research in financial accounting. At the outset, empirical accounting research is outlined as one of various contemporaneous methodological streams, which closely links to analytical and experimental work in the field. Based on this framework, an overview of trends and themes in contemporary accounting research is presented. In the core part of the course, the methodological issues involved in establishing causal inference are addressed and applied to contemporary literature streams. Illustrations and examples draw from academic papers using effects studies and event studies to infer economic consequences of disclosure regulation. The course consists of lectures and tutorials using databases, in which relevant issues are implemented using statistical software and commercial databases

### Objectives

Upon conclusion of the course, students have acquired an understanding of the core fields, of current trends and techniques in empirical accounting research. Students are able to develop research questions, and to devise and execute research designs addressing these questions.

## B490 Managing Across Cultures

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ oral participation, independent case study research, presentation, literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Writing and presenting a paper in group work
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Markus Pudelko

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business Core Module, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module discusses the influence of national cultures on management practices. Topics presented include:

- business communication and negotiation across cultures
- global leadership and multicultural teams
- international human resource management

### Objectives

In this module, students reflect on important Cross-Cultural Management theories. They learn to discuss these theories and apply them to real-life business cases. Performing applied cross-cultural teamwork in assigned groups, they furthermore analyze specific Cross-Cultural Management topics in detail. In addition, this module provides students with practical Cross-Cultural Management skills which are relevant to successfully operate in multinational organizations.

## B493A Doing Business in Selected Countries and World Regions

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 40      Independent Study: 140
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar and Colloquium (2 SWS) / Discussion, Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (120 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Markus Pudelko

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

Within this module, students can select two out of several courses covering the economic and social framework conditions and business cultures of different countries and regions such as China, Japan, Korea, and South America. Focal topics include:

- a) Business cultures
- b) Cross-cultural communication and conflict management
- c) Building cooperative business relationships with business partners from these countries and regions

### Objectives

Students analyze the economic, social, political, and cultural conditions of specific countries and regions and assess their influence on domestic and international management. They will develop an understanding of how to engage in business activities with business partners from these countries and regions. Through group assignments, case studies, and role plays within the courses, students will enhance on a more general level their ability to effectively communicate, interact, and behave in an international business environment. In addition, this module provides students with practical managerial skills which are relevant to successfully do business in specific countries and regions.

## B493B Doing Business in Africa

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar and Colloquium (1 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Group Presentation
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Markus Pudelko

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module will explore commonalities and differences of business systems of sub-Saharan Africa. Key topics include:

- a) the economic framework conditions of sub-Saharan Africa
- b) business cultures of African nations
- c) African-European business partnerships

### Objectives

This module enables students to comprehend the basics of African business systems and to explain the characteristics of management in Africa. They interpret the dynamic economic situation in sub-Saharan Africa and recognize the role of outside economies, such as the West, but also China. In addition, students identify the opportunities Africa provides for Western companies, and assess what these companies should do in order to make use of them. In addition, this module provides students with practical managerial skills which are relevant to successfully do business in Africa or with African companies.

## B495 Current Issues in International Business I

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 40      Independent Study: 140
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS) Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof.Dr. Markus Pudelko

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module presents timely and relevant topics of International Business. Key topics might include, for example:

- a) Chinese management
- b) Chinese business system
- c) Digital Transformation in the Global Economy
- d) New Marketing in China

### Objectives

This module explores in its various parts selected topics of International Business that are timely and of high relevance in an advanced fashion. It can enable students to better understand the management and business systems of selected countries, such as China, in a more intensive manner and also discusses new developments in the global economy, such as the digital transformation. Students will learn how organizations but also individuals can successfully address such new challenges in the business world.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 40      Independent Study: 140
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS) Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof.Dr. Markus Pudelko

---

**This course can be taken as part of the following programs/modules:**


---

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

This module presents timely and relevant topics of International Business. Key topics might include, for example:

- a) Chinese management
- b) Chinese business system
- c) Digital Transformation in the Global Economy
- d) New Marketing in China

---

**Objectives**


---

This module explores in its various parts selected topics of International Business that are timely and of high relevance in an advanced fashion. It can enable students to better understand the management and business systems of selected countries, such as China, in a more intensive manner and also discusses new developments in the global economy, such as the digital transformation. Students will learn how organizations but also individuals can successfully address such new challenges in the business world.

## B497 Current Issues in International Business III

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 40      Independent Study: 140
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS) Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof.Dr. Markus Pudelko

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module presents timely and relevant topics of International Business. Key topics might include, for example:

- a) Chinese Management
- b) Chinese Business System
- c) Digital Transformation in the Global Economy
- d) Applied Research in International Business

### Objectives

This module explores in its various parts selected topics of International Business that are timely and of high relevance in an advanced fashion. It can enable students to better understand the management and business systems of selected countries, such as China, in a more intensive manner and also discusses new developments in the global economy, such as the digital transformation. Students will learn how organizations but also individuals can successfully address such new challenges in the business world.

## B512 CFA Colloquium

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Colloquium (2 SWS)/ group discussion, presentation, independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Portfolio: Term Paper (75%) and Presentation (25%) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Independent research
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	At least one of the following classes: B300, B301, B310, B311, B414A, B414B
<b>Person Responsible</b>	Prof. Ted Azarmi, PhD

### **This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### **Content**

The students are provided with the academic tools to participate in the CFA Institute Research Challenge. The entire class travels to Frankfurt at the CFA institute's expense. They listen to a high-level analyst-type company presentation. They are provided with an academic and an industry mentor. They receive training on a Bloomberg terminal and are introduced to other financial data providers such as Thomson Reuters Eikon in their study. Based on competition with some of the best German universities, the students have a chance to win and participate at an European and global championship. CFA pays travel costs to all competition venues (which in the past included New York city, for example). The course material includes valuation, financial analysis, stock investment, financial statement analysis. Students practice preparing real-world stock analyst reports at a professional quality level.



## Objectives

---

Students extract information from publicly available financial statements and other data for a firm. They learn to interpret the impact of information on stock prices. Students learn to use Bloomberg terminals and to analyze data provided by other professional financial data sources. Students do real-world practice with financial modeling using Excel for stock valuation. Students learn to interpret key value drivers of a firm and its stock price such as unique product position, competition, public relations and relevant marketing and production issues. Financial analyst report writing at an advanced level is also emphasized. Students learn how to personally interact with upper management of a firm in an analyst interview type setting and how to ask probing and meaningful questions relevant to stock valuation. Students also learn about stock prices, investment in stocks and practical aspects of the stock market.

## B519 Selected Issues in Managerial Economics

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Colloquium (2 SWS) Discussion, presentation, oral participation, independent study, literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Presentation - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Patrick Kampkötter, Prof. Dr. Werner Neus, Prof. Dr. Kerstin Pull, Prof. Dr. Manfred Stadler

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Selected Issues in Managerial Economics

### Content

The module deals with current research topics in management and economics.

### Objectives

By presenting two or more assigned papers, students critically assess and reflect seminal and/or current research in managerial economics. They develop methodological competencies, both in formal theory as well as in empirics. They acquire presentation, communication and discussion skills and further improve their analytical skills.

## B591 Topics in Advanced Research

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar and Colloquium (2 SWS)/ Discussion, Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Markus Pudelko

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module introduces participants (future scholars and junior scholars) into publication strategies for top international journals in the area of management.

The topics presented include:

- the requirements of international participations in management
- correct application of research methods
- the review process in leading management journals

### Objectives

The module will teach students to interpret journal rankings, to obtain information about selected journals, and to present their research according to the quality criteria of these publication outlets. They will analyze the review process in leading management journals, learn to develop publications strategies and to write up the various sections of a scholarly article.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Advanced Topics in Accounting and Finance
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students deepen their knowledge on advanced topics in Accounting and Finance and related fields by selecting from the online course catalogue. Depending on the specific topic, students extract insights from the academic literature or perform data analyses to create new insights, and summarize their results in a written thesis and an oral presentation. Details are announced in the course catalogue.

**Objectives**

Upon successful completion of this module, students are familiar with the latest research in Accounting and Finance or related fields. Students evaluate advanced and complex problems from the field of Accounting and Finance and address potential solutions through their own literature research and empirical analysis. Students analyze the advantages and drawbacks of new developments in their chosen topic, compose their own written academic paper and present and defend their results in front of an academic audience.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	Advanced Topics in Economics
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

This module is concerned with various topics from the field of Economics. A particular focus is on applied empirical and theoretical methods in modern economic research.

**Objectives**

Students become familiar with the frontier of research in economics. Upon successful completion of this module, students address important research questions in economics. Own empirical and theoretical analyses are summarized in a scientific paper and the main findings are presented in class.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	Advanced Topics in Economics and Finance
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students deepen their knowledge on advanced topics in Economics and Finance by selecting from the online course catalogue. Depending on the specific topic, students extract insights from the academic literature or perform data analyses to create new insights, and summarize their results in a written thesis and an oral presentation. Details are announced in the course catalogue.

**Objectives**

Students know how to write, present and defend an own research paper in Economics, Econometrics or Finance. They deepen and apply their technical and econometric skills and interpret their results appropriately.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	Advanced Topics in European Economics
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

This module is concerned with various topics from the field of Economics. A particular focus is on applied empirical and theoretical methods in modern economic research. Students may focus on an european point of view.

**Objectives**

Students become familiar with the frontier of research in economics. Upon succesful completion of this module, students address important research questions in economics. Own empirical and theoretical analyses are summarized in a scientific paper and the main findings are presented in class. Students apply their findings on European Economies.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Advanced Topics, ---
<i>Management &amp; Economics</i>	---

**Content**

Students deepen their knowledge on advanced topics in European management and related fields by selecting from the online course catalogue. Depending on the specific topic, students extract insights from the academic literature or perform data analyses to create new insights, and summarize their results in a written thesis and or oral presentation. Details are announced in the course catalogue.

**Objectives**

Upon successful completion of this module, students are familiar with the latest research in European Management or related fields. Students evaluate advanced and complex problems from the domain of European Management and address potential solutions through their own literature research and empirical analysis. Students analyze the advantages and drawbacks of new developments in their chosen topic, compose their own written academic paper and present and defend their results in front of an academic audience.



<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Advanced Topics, ---
<i>Management &amp; Economics</i>	---

**Content**

Students deepen their knowledge on advanced topics in General Management and related fields by selecting from the online course catalogue. Depending on the specific topic, students extract insights from the academic literature or perform data analyses to create new insights, and summarize their results in a written thesis and or oral presentation. Details are announced in the course catalogue.

**Objectives**

Upon successful completion of this module, students are familiar with the latest research in General Management or related fields. Students evaluate advanced and complex problems from the domain of General Management and address potential solutions through their own literature research and empirical analysis. Students analyze the advantages and drawbacks of new developments in their chosen topic, compose their own written academic paper and present and defend their results in front of an academic audience.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Advanced Topics, ---
<i>Management &amp; Economics</i>	---

**Content**

Students deepen their knowledge on advanced topics in International Business and related fields by selecting from the online course catalogue. Depending on the specific topic, students extract insights from the academic literature or perform data analyses to create new insights, and summarize their results in a written thesis and or oral presentation. Details are announced in the course catalogue.

**Objectives**

Upon successful completion of this module, students are familiar with the latest research in International Business or related fields. Students evaluate advanced and complex problems from the domain of International Business and address potential solutions through their own literature research and empirical analysis. Students analyze the advantages and drawbacks of new developments in their chosen topic, compose their own written academic paper and present and defend their results in front of an academic audience.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Advanced Topics in Management and Economics

**Content**

This module is concerned with various topics from the field of economics and business administration. A particular focus is on data science techniques in modern economic research.

**Objectives**

Students become familiar with the frontier of research in economics and business administration and data science techniques. Upon successful completion of this module, students address important research questions in economics and business administration and data science techniques. Own empirical and theoretical analyses are summarized in a scientific paper and the main findings are presented in class.

## CM5\_09 Advanced Topics in Data Science in Business and Economics

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course catalogue
<b>Prerequisite for</b>	Master Thesis
<b>Prerequisites</b>	See course catalogue
<b>Person Responsible</b>	See course catalogue

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Advanced Topics in Data Science in Business and Economics
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

### Content

This module is concerned with various topics from the field of management and economics. A particular focus is on applied empirical and theoretical methods in modern economic research.

### Objectives

Students become familiar with the frontier of research in management and economics. Upon successful completion of this module, students address important research questions in management and economics. Own empirical and theoretical analyses are summarized in a scientific paper and the main findings are presented in class.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	DS500 Data Science Project
<b>Prerequisites</b>	See course description
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Core Studies Focus Data Science Techniques
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students learn about selected areas of data science techniques by using appropriate methods. Methods covered in this module are, among others, (automated) data acquisition and collection, handling, analysis and visualization. The topics and data sets may cover the entire range of business and economics where quantitative empirical work is prevalent.

**Objectives**

Students can explain selected relevant and complex data science problems. Students know how to choose data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Students develop an understanding of what to keep in mind when analyzing complex data sets. Further, they can explain the merits of different techniques relative to other approaches.

# DS401 Data Science Techniques 1

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 9 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

## This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

## Content

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

## Objectives

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: written exam, or oral examination, or assignments - 6 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of data science techniques by choosing appropriate courses. These courses cover, among other topics, different programming languages, different approaches to data analysis (e.g., Machine Learning), and relevant tools to extract information (e.g., text mining). Courses in this module usually involve data processing as well as statistical programming.

**Objectives**

Students can analyze selected relevant and complex data science problems. Students know how to choose and apply appropriate data science tools (e.g., programming languages, statistical approaches) for solving and analysing data science problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	12
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 330
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Colloquium (1 SWS), PC-Lab (1 SWS)/ discussion, independent study, programming
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Presentation (50%), Term Paper (50%) - 12 ECTS / 100% of module grade
<b>Course Work</b>	See course description
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	DS400 Data Science Project Management
<b>Person Responsible</b>	Prof. Dr. Dominik Papies

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Data Science Project
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

In this module, students apply the knowledge they acquired in previous modules and implement a data science project, covering all relevant steps. These steps usually involve (automated) data acquisition and collection, handling, analysis, visualization, and creating a user interface. The topics and data sets may cover the entire range of business and economics where quantitative empirical work is prevalent, and the project may be an autonomous data science project, or it may be part of a larger research project.

**Objectives**

After completing this module, students know how to implement and program all relevant steps of a typical data science project. They can reflect upon proper choices of programming language, data source and analytical method. They can develop a suitable interface to communicate analytical results to relevant stakeholders. They can assess and evaluate the benefits of the approaches they apply relative to other approaches. Through the assignment, they develop a suitable interface to communicate analytical results to relevant stakeholders. They can assess and evaluate the benefits of the approaches they apply relative to other approaches. Students can present their results orally.

## E410 Fiscal Federalism

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS)/ Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Assignment
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Georg Wamser

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module will discuss implications of multilevel governance on economic behavior (of governments, individuals or firms).

### Objectives

In this module, students will apply formal methods to understand complex issues in fiscal federalism. Students analyze optimal policy scenarios, which will be compared to real-world policies of governments. Students assess actual practices in federations around the worlds.

## E411 Economics of Taxation

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Georg Wamser

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module will present a unified framework in which tax policy and its consequences can be analyzed. We introduce basic concepts used in public economics and some fundamentals of economic modelling. Topics include:

- (i) taxes and labor supply
- (ii) income taxation
- (iii) commodity taxation
- (iv) taxes and investment, as well as
- (v) taxes and foreign direct investment.

### Objectives

In this module, students will outline important topics in public economics, with a focus on taxation. They will reflect advanced concepts in (theoretical and empirical) policy analysis. Students apply these concepts to analyze tax and transfer policies. In the practice course, participants implement microeconomic estimation techniques to assess the consequences of tax policy.



## E412 Topics in Public Policy I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Colloquium (2 SWS)/ oral participation, independent study, literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Georg Wamser

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on the determinants and effects of public policy by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of public policy in different areas.

## E413 Topics in Public Policy II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Colloquium (2 SWS)/ oral participation, independent study, literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Georg Wamser

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on the determinants and effects of public policy by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of public policy in different areas.

## E414 Topics in Public Policy III

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Colloquium (2 SWS)/ oral participation, independent study, literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Georg Wamser

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on the determinants and effects of public policy by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of public policy in different areas.

## E421 International Trade I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (1 SWS)/ Oral participation, Discussion, Independent Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E424 Advanced Microeconomics
<b>Person Responsible</b>	Prof. Dr. Anna Gumpert

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module International Economics, Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module introduces students to key concepts of international trade theory and recent advances in the field. Topics covered include the theory of comparative advantage, the role of increasing returns to scale and heterogeneous firms in international trade.

### Objectives

Upon completing this module, students know key facts about international trade and important theories explaining these facts. Students understand state of the art research in the field of international trade and are prepared to engage in such research themselves. The insights gained in this module enable students to contribute in an informed manner to the globalization debate.

## E422 International Trade II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (1 SWS)/ Oral participation, Discussion, Independent Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E424 Advanced Microeconomics
<b>Person Responsible</b>	Prof. Dr. Anna Gumpert

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module International Economics, Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module introduces students to key concepts of international trade theory and recent advances in the field. Topics covered include the theory of comparative advantage, the role of increasing returns to scale and heterogeneous firms in international trade.

### Objectives

Upon completing this module, students know key facts about international trade and important theories explaining these facts. Students understand state of the art research in the field of international trade and are prepared to engage in such research themselves. The insights gained in this module enable students to contribute in an informed manner to the globalization debate.

## E424 Advanced Microeconomics I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 75      Independent Study: 195
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (2 SWS)/ Literature study, Independent writing, Discussion, Oral participation
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (120 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	E421, E422
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Anna Gumpert

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Advanced Microeconomics
<i>Economics and Finance</i>	Core Studies Economics, Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Economics/ International Economics, Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The module deals with the essential concepts of modern microeconomic theory and the underlying mathematical methods on an advanced level. It covers preferences and consumer behavior, production and firm behavior, competitive market equilibrium and general equilibrium, welfare, market failure and market power, and game theory.

### Objectives

Students completing this module understand the essential concepts of microeconomics. In the practice course, they apply and deepen their understanding of these concepts. Students are enabled to successfully apply microeconomic theory in advanced field courses, to understand and assess theoretical contributions in economic journals, and to develop their own research agenda for the Master program and beyond.

## E431 Open Economy Macroeconomics

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS)/ Oral participation, Group discussion, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Gernot Müller

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module International Economics, Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Specialization Studies Focus Finance, Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module is concerned with current account determination, sovereign debt and default, exchange rates and monetary policy. We approach these issues from a theoretical point of view, but confront model predictions with evidence as we proceed.

### Objectives

Students explain and reflect upon the content and the tools of modern macroeconomics.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 135
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Good working knowledge of calculus
<b>Person Responsible</b>	Dr. Christian Manger

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

This module will cover the most relevant aspects of modern labour economics with a focus on economic theory. Amongst others, this module will discuss the effects of asymmetric information, discrimination, search frictions and minimum wages on labour supply, investment in human capital, wage dispersion, automation, and efficiency.

**Objectives**

This module familiarizes students with formal models in labour market theory. Completion of the module will enable them to analyse current political issues such as residual wage differentials, discrimination with respect to gender or ethnicity, and the effects of minimum wages. Moreover, they are able to judge the advantages and limits of theoretical models and can apply them in order to develop their own research agenda.



## E433 Advanced Macroeconomics I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 75      Independent Study: 195
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (2 SWS)/ Oral participation, Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	E420, E421, E425
<b>Prerequisites</b>	Good working knowledge of calculus
<b>Person Responsible</b>	Dr. Christian Manger

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Advanced Macroeconomics
<i>Economics and Finance</i>	Core Studies Economics, Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Economics/ International Economics, Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module familiarizes students with the essential concepts of modern macroeconomic theory at an advanced level. A particular focus will be placed on formal microfounded models to analyze and understand economic growth dynamics. The main topics are growth theory sustainable growth, and an introduction to real business cycle models.

### Objectives

This module will provide students with the necessary instruments and techniques that enable them to develop their own research agenda. Having completed this module, students will feel comfortable reviewing journal articles at the frontier of modern economic research. While the module will be mostly concerned with positive economic theory, students will also learn to derive and assess the normative and policy implications of the covered models and apply them to real world problems.

## E434 Advanced Macroeconomics II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Group discussion, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E433 Advanced Macroeconomics I
<b>Person Responsible</b>	Prof. Dr. Ralph Luetticke

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

Topics to be covered include: Heterogeneous-agent macroeconomic models. Search, matching and equilibrium unemployment. Dynamic programming. Solution Methods of General Equilibrium models.

#### Outline

#### 1. Tools for Studying Dynamic Economies

(a) Dynamic Programming

(b) Numerical Dynamic Programming

(c) Applications to Neoclassical Growth and Search, Matching and Unemployment

#### 2. Self Insurance and Incomplete Markets Models (Theory)

(a) Self Insurance (partial equilibrium)

(b) Bewley Models

#### 3. Heterogeneous-agents in Macroeconomics (Applications)

(a) Household heterogeneity

(b) Firm heterogeneity

#### 4. Equilibrium Unemployment Theory

(a) Theory

(b) Applications

• Numerical problem sets, solved on a computer

– Neoclassical growth model – using the social planner's problem

- Stochastic growth model (RBC) – planner’s problem
- Neoclassical growth model – competitive equilibrium
- Incomplete markets model (Huggett-Aiyagari)
- Basic McCall job search model
- Calibrated search model
- Analytical problem sets, pen and paper
- some full analytical solutions
- some characterizations of the problem and describing an algorithm to solve it on a computer

## Objectives

---

Students get acquainted with two major features of modern economies. The first is the large dispersion across households and firms in income and wealth, the second is the existence of persistent unemployment. Students will understand the causes and consequences of dispersion or, put differently, economic inequality. They will do so by learning the models and tools that macroeconomists have developed to represent these phenomena. With the help of these models, students will then analyse the welfare implications of various government interventions aimed at reducing inequality.

One goal of the course is to give students the opportunity to learn how to use a computer to solve economic models that may not have a “pen and paper” solution. This will allow students to consider richer models of economic behaviour and will hopefully inspire them to be ambitious in research ideas.

## E435 European Economic Integration

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Presentation, Term Paper
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Enrollment in joint MSc Tübingen/Marseille, exception granted upon request
<b>Person Responsible</b>	Prof. Dr. Gernot Müller

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

In this seminar faculty from Tübingen and Marseille discuss contemporary issues of European Economic Integration with students. Topics include Brexit, Migration and European Monetary and Fiscal Policy.

Special feature:

- Topics are allocated in February to students enrolled in their first year at Tübingen
- Student presentations take place in April in Marseille (involves a 4 day trip to Marseille)
- Term paper to be handed in June

### Objectives

Students learn how to apply tools of economic analysis to contemporaneous policy issues; in addition they practise presentation skills.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Group discussion, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Assignments or Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E433 Advanced Macroeconomics I E434 Advanced Macroeconomics II (recommended but not required) S411 Advanced Time Series Analysis (recommended but not required) Basic undergraduate knowledge of macroeconomics as well as econometrics are required, programmi
<b>Person Responsible</b>	Prof. Dr. Willi Mutschler

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

We cover modern theoretical macroeconomics (the study of aggregated variables such as economic growth, unemployment and inflation by means of structural macroeconomic models) and combine it with econometric methods (the application of formal statistical methods in empirical economics). We focus on the quantitative aspects and methods for solving and estimating the most prominent model classes in macroeconomics: Structural Vector Autoregressive (SVAR) and Dynamic Stochastic General Equilibrium (DSGE) models. Using these two model strands, the theoretical and methodological foundations of quantitative macroeconomics is taught. The students are thus enabled to understand the analyses and forecasts of public (universities, central banks, economic research institutes) as well as private (business banks, political consultations) research departments, but also to derive and empirically evaluate their own structural macroeconomic models.

As Quantitative Macroeconomics is highly computational, the course is interactive and "hands-on", so there is no formal separation between the lecture and the exercise class. Each topic begins with a theoretical input and presentation of methods. These concepts are practiced directly thereafter by means of exercises and implemented on the computer in MATLAB and Dynare. We will also cover some basics in High Performance Computing and recent developments like Machine Learning in the field.  
Software used: Dynare and MATLAB

## Objectives

---

Students acquire knowledge of advanced methods of quantitative research in the field of modern macroeconomics. This knowledge is relevant for the realization of a wide variety of macroeconomic research projects and is applied in central banks, ministries, research institutes (e.g. DIW, ifo, IfW, IWH, RWI) and research departments of international organizations (e.g. IMF, World Bank). Upon successful completion of this module, students are prepared to work in these areas. At the same time, the module prepares students for the requirements of a quantitatively oriented macroeconomic dissertation.

The gained methodological skills enable a precise understanding and largely independent empirical analysis of the most important model classes in quantitative macroeconomics. Students are familiar with a variety of examples and situations in which quantitative thinking is useful in explaining abstract macroeconomic phenomena. They recognize and appreciate the connections between theory and evidence and use their training to find possible avenues of research. While constructing abstract models, they identify appropriate economic and statistical tools and evaluate their strengths and weaknesses in the context of problem solving. They utilize computers and software effectively as tools for solving and estimating macroeconomic models. In addition, because students work on the problem sets as a team, students' coordination, organization, and communication skills are enhanced.

## E437 Computational Macroeconomics

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Group discussion, Independent study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Assignments or Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E433 Advanced Macroeconomics I (or similar Bachelor studies) E434 Advanced Macroeconomics II (recommended but not required) S411 Advanced Time Series Analysis (recommended but not required) Basic undergraduate knowledge of macroeconomics as well as econom
<b>Person Responsible</b>	Prof. Dr. Willi Mutschler

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

We cover modern theoretical macroeconomics and combine it with state-of-the-art numerical methods to study abstract macroeconomic concepts such as optimal monetary, fiscal and environmental policy, occasionally-binding constraints (zero-lower-bound, irreversible investment), quantitative easing and rare disaster risk. To this end, we use the Dynamic Stochastic General Equilibrium (DSGE) model paradigm, particularly focusing on different variants of the New-Keynesian model, and develop the numerical procedures and algorithms required to solve and simulate such models. Using several examples from the literature the theoretical and methodological foundations of computational macroeconomics is taught. As this course is highly computational, it is interactive and "hands-on", so there is no formal separation between the lecture and the exercise class. Each topic begins with a theoretical input and presentation of methods. These concepts are practiced directly thereafter by means of exercises and implemented on the computer in MATLAB/Julia and Dynare. We will also cover some basics in High Performance Computing and recent developments like Machine Learning in the field.

## Objectives

---

Students acquire knowledge of advanced numerical methods in the field of computational macroeconomics. This knowledge is relevant for the realization of a wide variety of macroeconomic research projects and is applied in central banks, ministries, research institutes (e.g. DIW, ifo, IfW, IWH, RWI) and research departments of international organizations (e.g. IMF, World Bank). Upon successful completion of this module, students are prepared to work in these areas. At the same time, the module prepares students for the requirements of a methodological oriented macroeconomic dissertation.

Students are familiar with a variety of algorithms, examples and situations in which computational thinking is useful in approximating and evaluating abstract macroeconomic phenomena. They recognize and appreciate the connections between theory and computational methods and use their training to find possible avenues of research. While constructing abstract algorithms, they identify appropriate computational tools and evaluate their strengths and weaknesses in the context of problem solving. They utilize computers and software effectively as tools for solving and simulating macroeconomic models. In addition, because students work on the problem sets as a team, students' coordination, organization, and communication skills are enhanced.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 40      Independent Study: 140
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS)/ Discussion and oral participation in tutorial
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module International Economics, Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

This module will deal with the role of multinational enterprises and foreign direct investment in the world economy. We will explain why and when they exist, and we will discuss in detail which type of foreign direct investment we may expect, considering different market conditions and country characteristics. We will also consider how the existence of multinational firms will change local market structures and welfare.

**Objectives**

Students will understand the role multinational enterprises play in the global economy. They will be able to apply microeconomics concepts for the analysis of foreign direct investment, and they will explain under which circumstances trade will be a substitute or a complement of foreign direct investment. They will also analyze the holdup problem and other relevant frictions in this context. The tutorial allows them to discuss multinational firm behavior in detail.

## E441 Advanced Microeconomics II

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (1 SWS)/ Literature study, Independent writing
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (120 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E424: Advanced Microeconomics
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The module builds on the course Advanced Microeconomics I. It deals with advanced concepts of general equilibrium, strategic behavior, market power and asymmetric information and game theory.

### Objectives

Students completing this module explain the advanced concepts of microeconomics. In the tutorial, they apply and deepen their understanding of these concepts. Students successfully apply advanced microeconomic theory and are able to understand and assess advanced theoretical contributions in economic journals.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of empirical methods, econometrics, and data science by choosing appropriate courses.

**Objectives**

Students can analyze selected relevant and complex empirical problems. Students know how to choose and apply appropriate analysis tools (e.g., programming languages, statistical approaches) for solving and analysing empirical problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of empirical methods, econometrics, and data science by choosing appropriate courses.

**Objectives**

Students can analyze selected relevant and complex empirical problems. Students know how to choose and apply appropriate analysis tools (e.g., programming languages, statistical approaches) for solving and analysing empirical problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of empirical methods, econometrics, and data science by choosing appropriate courses.

**Objectives**

Students can analyze selected relevant and complex empirical problems. Students know how to choose and apply appropriate analysis tools (e.g., programming languages, statistical approaches) for solving and analysing empirical problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas of empirical methods, econometrics, and data science by choosing appropriate courses.

**Objectives**

Students can analyze selected relevant and complex empirical problems. Students know how to choose and apply appropriate analysis tools (e.g., programming languages, statistical approaches) for solving and analysing empirical problems. Further, they can assess the merits of different techniques relative to other approaches.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (4 SWS) Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Frank Stähler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

This course introduces students to the application of economic theory and empirical methods to the study of markets for healthcare and health insurance and related government policies. Students will engage directly with recent, peer-reviewed academic articles in health economics and related fields. We will focus on empirical, applied microeconomics research. Strong emphasis will be placed on the methods used in the studies that we examine. Special attention will be given to those with a tight link between theory and empirics that test the predictions of a theory or estimate a structural model of consumer or firm behavior. Topics will include the demand for healthcare; health insurance markets, with a focus on asymmetric information; social insurance programs; and the impacts of health, health risk, and health insurance on individual decisions and outcomes, including health, labor supply, and savings.

## Objectives

---

1. Be able to engage critically with current, peer-reviewed, academic research in health economics and related fields.
2. Be able to clearly communicate economic research—the motivation, research question, theoretical and/or empirical framework, and results—to an audience of your peers.
3. Understand how to apply the theoretical and empirical tools used by applied microeconomists to conduct research on markets for healthcare and health insurance as well as related government policies.
4. Understand key concepts in the design of health insurance contracts and markets, such as asymmetric information, adverse selection, moral hazard, risk adjustment, and managed competition.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS) Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	To participate in the exam, students are required to pass four assignments.
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Knowledge of mathematical methods for economic analysis. It is strongly recommended to attend the refresher course S 414 – Advanced Mathematical Methods (block seminar prior to the start of the semester).
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	---

**Content**

The module is concerned with the strategic interaction of firms in relevant markets. Firm behavior, market structure and market performance are explained in terms of some basic market conditions such as technology, demand, entry cost, and information structure. Special topics are collusion, deterrence and accommodation of market entry, strategic choice of capacities, advertising, investment, research and development, location, horizontal and vertical product differentiation as well as information sharing and signaling.

**Objectives**

Students know basic mathematical tools and key concepts used in modern game theory and apply these concepts to various topics of strategic competition in different markets.

## E450B Game Theory and Industrial Organization

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS), Colloquium (2 SWS) Oral participation, Discussion, Independent study, Presentation
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	To participate in the exam, students are required to pass four assignments and pass the colloquium.
<b>Prerequisite for Prerequisites</b>	---
<b>Prerequisites</b>	Knowledge of mathematical methods for economic analysis. It is strongly recommended to attend the refresher course S 414 – Advanced Mathematical Methods (block seminar prior to the start of the semester)
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organization Core Module, Free Elective Studies
<i>Management &amp; Economics</i>	Core Studies, Free Elective Studies

### Content

The module is concerned with the strategic interaction of firms in relevant markets. Firm behavior, market structure and market performance are explained in terms of some basic market conditions such as technology, demand, entry cost, and information structure. Special topics are collusion, deterrence and accommodation of market entry, strategic choice of capacities, advertising, investment, research and development, location, horizontal and vertical product differentiation as well as information sharing and signaling. The colloquium complements the lecture. It deals with selected topics in Applied Industrial Organization.

### Objectives

Students know basic mathematical tools and key concepts used in modern game theory and apply these concepts to analyze topics of strategic competition in different markets. By visiting the colloquium, students know how to present and discuss advanced models in Industrial Organization and to apply them to specific research questions.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS) Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	To participate in the exam, students are required to pass four assignments.
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

After a short review of the neoclassical growth theory the module deals with some advanced models of endogenous growth. Special topics are capital accumulation, population dynamics, public infrastructure, natural resources, environmental pollution, climate change and sustainable development, education and human capital as well as innovation and technological change in the global economy.

**Objectives**

Students apply the basic mathematical tools and key concepts which are essential in dynamic macroeconomics (differential equations, dynamic optimization) and categorize the decisive forces fostering and hampering economic growth and sustainable development.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS), Colloquium (2 SWS) Oral participation, Discussion, Independent study, Presentation
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	To participate in the exam, students are required to pass four assignments and the colloquium.
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E453A
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

After a short review of the neoclassical growth theory the module deals with some advanced models of endogenous growth. Special topics are capital accumulation, population dynamics, public infrastructure, natural resources, environmental pollution, climate change and sustainable development, education and human capital as well as innovation and technological change in the global economy. The colloquium complements the lecture. It deals with selected topics in economic growth and sustainable development.

**Objectives**

Students apply the basic mathematical tools and key concepts which are essential in dynamic macroeconomics (differential equations, dynamic optimization) and categorize the decisive forces fostering and hampering economic growth and sustainable development. By visiting the colloquium, students know how to present and discuss advanced models in dynamic macroeconomics and to apply them to specific research questions.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS) Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	To participate in the exam, students are required to pass three assignments.
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Specialization Marketing, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

Innovation is the main driving force of the development of firms, industries and economies. The causes and effects of innovation cannot be explained in a satisfying way by focusing on only one of these levels. The module therefore provides an integrated bottom-up analysis of the innovation process, starting at the microeconomic firm level (innovation management), moving on to the industry level (innovation competition), the aggregate macroeconomic level (innovation and growth dynamics), and finally the global level (innovation and international trade).

**Objectives**

Students explain the key issues of innovation and technological change. They distinguish basic tools of modern economic theory (dynamic optimization, game theory, general-equilibrium theory). They develop a deep understanding of the relationship between business economics and micro- and macroeconomic theory and recognize that both represent different approaches within a unified scientific discipline.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and Tutorial (2 SWS)/ Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	attendance compulsory
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler or Prof. Dr. Kerstin Pull

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

The module is divided into four main sections:

- 1) Behavioral decision making (intertemporal decision making, decision making under uncertainty, so called “paradoxes” of decision making like “preference reversal” and “conjunction effect”);
- 2) Elementary Methods of Experimental Economics (principles of experimentation, hypothesis testing, methods of non-parametric statistics;
- 3) Behavioral game theory (fairness and reciprocity, bounded rationality);
- 4) Recent developments in Behavioral Economics (Neuro-Economics, mental modeling)

**Objectives**

Graduates of the module describe behavioral principles of strategic and non-strategic decision making in an economic environment. This enable them to evaluate purely theoretical economic problems more adequately and to design an appropriate economic environment for applied decision problems as well. Moreover, graduates conduct simple economic experiments in order to test how suitable selected economic and institutional designs are to deal with economic problems.

## E471 Empirical Topics in International Trade

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Oral participation, Discussion, Independent study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Take-home Exam or written exam (see term details) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Data project and/or presentation (see term details)
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	E424, E433
<b>Person Responsible</b>	Prof. Dr. Valeria Merlo

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module International Economics, Elective Track Module International Economics, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The goal of this module is to introduce students to central and recent empirical work in international trade. We will discuss the derivation and estimation of gravity models for international trade and develop an understanding of state-of-the-art empirical techniques used in international economics. The lecture will be complemented by a tutorial where we will learn to handle and visualize trade data, replicate empirical studies and estimate gravity models using the statistical program R.

### Objectives

Students will be able to analyze trade data, evaluate existing research and carry out own empirical research in international economics.

## E463 Causal Machine Learning

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Self study, Presentation, Coding
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful participation in either S411 Advanced Time Series Analysis or S422 Advanced Microeconometrics or comparable courses (please contact person responsible)
<b>Person Responsible</b>	Prof. Michael Knaus, PhD

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Data Science Techniques, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

This module introduces recent methods at the intersection of causal inference and machine learning. This includes (i) methods that leverage supervised machine learning for the estimation of average or heterogeneous treatment effects, like Double Machine Learning and Causal Forests, and (ii) policy learning that recommends ads/policies/treatments/... in a data-driven way, like bandit algorithms. The methods are applied to simulated and real datasets using the programming language R.

### Objectives

Students understand the conceptual and statistical foundations of causal machine learning methods and are able to implement them in R. They can judge the quality of data analysis using such methods and are aware of their shortcomings.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS)/ Self study, Presentation, Coding
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Knowledge of probability theory and ordinary least squares
<b>Person Responsible</b>	Prof. Michael Knaus, PhD

**This course can be taken as part of the following programs/modules:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Data Science Techniques, Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

Correlation does not imply causation. This insight is crucial for any data analyst who aims to inform decisions. This course introduces two frameworks to think about causality: (i) potential outcomes that are more prevalent in economics and statistics, and (ii) directed acyclic graphs (DAGs) that are more prevalent in computer science and industry. These frameworks are applied to understand how causal effects can be identified in experiments (A/B testing), natural experiments (instrumental variables, difference-in-differences, regression discontinuity), and more complex causal structures as well as how to discover causal structures. Application are run in R. In combination with machine learning modules like “Machine Learning in Econometrics” or “Machine Learning Applications in Business and Economics”, it is the perfect preparation for “Causal Machine Learning”.

**Objectives**

Students develop a thorough understanding of causal inference through the lense of potential outcomes and DAGs. These frameworks and their application allow them to be critical consumers and reflected producers of data analyses that target causal effects.

## E465 Language and Culture I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Valeria Merlo

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

In this module, students extend their knowledge in selected areas from language and culture of one or more countries and regions of the world by choosing appropriate courses.

### **Objectives**

Students deepen their knowledge of language and culture of one or more countries or world regions.

## E466 Language and Culture II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Valeria Merlo

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

In this module, students extend their knowledge in selected areas from language and culture of one or more countries and regions of the world by choosing appropriate courses.

### **Objectives**

Students deepen their knowledge of language and culture of one or more countries or world regions.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Valeria Merlo

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

In this module, students extend their knowledge in selected areas from language and culture of one or more countries and regions of the world by choosing appropriate courses.

---

**Objectives**


---

Students deepen their knowledge of language and culture of one or more countries or world regions.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 120
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Valeria Merlo

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module International Economics, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

In this module, students extend their knowledge in selected areas from language and culture of one or more countries and regions of the world by choosing appropriate courses.

**Objectives**

Students deepen their knowledge of language and culture of one or more countries or world regions.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	generally: WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (2 SWS) Oral participation, Group work, Self-study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	Mandatory hand-in of at least half of problem set solutions, group-work possible, discussion in tutorial with voluntary presentation of results
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Dr. Maximilian Weiß

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

In this course, we go at the central question of financial economics: what are the real risks that drive asset prices and expected returns. In the first part, we cover consumption-based asset pricing theory and the three views of asset pricing and their relationship: the stochastic discount factor representation, the mean-variance frontier, and the expected return-beta representation. In the second part, we discuss the associated empirical puzzles — the equity premium puzzle and the return predictability puzzle — and go through theories in the literature that offer a resolution to these puzzles. We quantitatively assess more complex theories that combine asset pricing and macroeconomic fluctuations by numerically solving models using the programming language Julia.

---

**Objectives**


---

Students master formally and intuitively the theoretical foundations of consumption-based asset pricing and have an understanding of how to relate these concepts to data measurements. They understand the main empirical puzzles / open questions and know the leading theoretical explanations within this framework.

# E480 Empirical Studies on Migration, Trade and Growth in the Long Run

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 45      Independent Study: 225
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (2 SWS), Tutorial (1 SWS) Self study, Literature study, Presentation, Assignment
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	Presentation, Assignments
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

## This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module Economic History, Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

## Content

This module provides an overlook over interesting quantitative topics in international economic history, like:

- impact from different factors on international migration
- the extent of migrants influence on their destination countries in the long run
- the latest research on the biological standard of living and human capital development

## Objectives

The students recognize the relationship between migration, trade and long run growth. Additionally, they get to know the current research in this field and its most important statistical methods. By writing a term paper, students gather, analyze and apply information in order to formulate convincing arguments, communicate academic ideas, produce conclusions and acquire skills in academic writing.

## E481 Topics in History I

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

Students extend their knowledge on historical economic developments by choosing appropriate courses.

### Objectives

Students develop an understanding of the determinants and effects of historical economic developments and events in different areas.



## E482 Topics in History II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (4 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on historical economic developments by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of historical economic developments and events in different areas.

## E483 Topics in History III

M.Sc.

<b>ECTS-Credits</b>	3
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 60
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (2 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 3 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on historical economic developments by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of historical economic developments and events in different areas.

## E484 Topics in History IV

M.Sc.

<b>ECTS-Credits</b>	3
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 60
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture and tutorial (2 SWS) / Oral participation Independent study, Literature study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written exam, or oral examination, or assignments, or term paper - 3 ECTS / 100% of module grade
<b>Course Work</b>	See term details
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

### **This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Free Elective Studies

### **Content**

Students extend their knowledge on historical economic developments by choosing appropriate courses.

### **Objectives**

Students develop an understanding of the determinants and effects of historical economic developments and events in different areas.

## E550 Topics in Applied Economic Theory

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Oral participation, Group discussion, Independent study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Game Theory and Industrial Organization (E 450) or Economic Growth (E 453)
<b>Person Responsible</b>	Prof. Dr. Manfred Stadler

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Industrial Organizations, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

The seminars deals with selected topics in Applied Microeconomics and Macroeconomics. Two of three seminars can be taken out of:

- (1) Master Seminar: Game Theory and Industrial Organization
- (2) Master Seminar: Case Studies in Industrial Organization (Prof. Rall)
- (3) Master Seminar: Resources, Innovation and Economic Growth

Seminars (1) and (2) in Applied Microeconomics deal with strategic issues in Industrial Organization. Either they apply advanced concepts of game theory in IO (sequential games, differential games, global games, evolutionary games) or they use standard concepts in order to analyze specific case studies.

The seminar (3) in Applied Macroeconomics deals with selected topics in economic growth and sustainable development such as population dynamics, natural resources and environment, public spending and infrastructure, education and human capital accumulation as well as innovation and technological change in the global economy.

## Objectives

---

Students know how to write and present an own research paper. They apply research techniques and scientific writing skills. In presenting a research paper, students acquire presentations as well as communication skills (written and oral). Students learn to reflect on the current state of reasearch in Applied Economic Theory and carry out scientific work independently.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Self study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module Economic History, Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

The module provides an overlook over interesting topics in International Economic History. In the summer term the main focus is on:

- European economic history during the latest era,
- "First Era of Globalization" (1880-1913) and what determinants gave rise to its failure,
- the current wave of globalization and which influence anti-globalization movements have
- the latest research on the biological standard of living and human capital development.

In the winter term the main focus is on:

- financial market evidence,
- modern issues, such as bubbles and economic crises, seen from a long-term perspective,
- behavioral aspects of stock markets.

## Objectives

---

In this module students describe general issues in international economics and interesting economic developments. Students will also strengthen their knowledge in applied statistical analyses techniques and execute them with STATA by using real historical data. By writing a term paper, students will be able to gather, analyze and apply information, to formulate convincing arguments, communicate academic ideas, produce conclusions and acquire skills in academic writing.

## E581 Topics in International Economic History II

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 240
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ Self study, Literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation, Term Paper - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Jörg Baten

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Business and Economics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Compulsory Track Module Economic History, Elective Track Module Economic History, Free Elective Studies
<i>Economics and Finance</i>	Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Specialization Studies Focus International Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

In this module, students can obtain deep insights into the process of scholarly research in economic history by doing a research internship. The main aspects are how researchers are working on studies and how to retrieve information, prepare econometric analysis and design a scholarly text.

The topics covered in the Winter term:

Long-run human capital development.

The development of welfare in many different world regions.

International economic history.

The topics covered in the Summer term:

Development and violence.

Brain drain and migration.

General development trends in poor countries over the long run, e.g. human capital, welfare.



## Objectives

---

In this module students describe general issues in international economics and interesting economic developments. They will also strengthen their knowledge in applied statistical analyses techniques and execute them with STATA by using real historical data. By writing a term paper, students will be able to gather, analyze and apply information, to formulate convincing arguments, communicate academic ideas, produce conclusions and acquire skills in academic writing. Students present and discuss the research question and their analysis to an academic audience, they react to and incorporate new ideas, feedback and critique.

<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Master Thesis
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on a chosen topic within the area of Accounting and Finance. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Having completed this module, students can identify and address relevant research problems in accounting and finance or related fields on an advanced academic level. They critically analyze research articles in academic journals and transfer its insights to their own scientific work. They will know how to assess the relevance of research questions, the appropriateness of given tools for analysis, and they can evaluate the implications of their findings for the academic literature and management practice.

<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core Modules worth at least 27 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on a chosen economic topic. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Students are able to write a thesis in economics on an advanced academic level. They review and discuss previous literature in light of their own research question. They theoretically and empirically analyze their main hypotheses by applying state-of-the-art research methods in economics.

<b>ECTS-Credits</b>	30
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 900
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 30 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core Modules worth at least 27 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	Master Thesis
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on a chosen topic within the area of economics, econometrics or finance. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Students are able to write a thesis in economics, econometrics or finance on an advanced academic level. They review and discuss previous literature in light of their own research question. They theoretically and empirically analyze their main hypotheses by applying state-of-the-art research methods in economics and finance.

<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	Master Thesis
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on a chosen economic topic. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Having written their master thesis students are able to handle their own economic subject on an advanced academic level. They have learned to critically analyze research articles in academic journals and to use them for their own scientific work. The process of finding a research question, testing its relevance and finally evaluating the results by writing a conclusion helps students to adapt working procedures in their future work life.

<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Master Thesis, ---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on a chosen topic within the area of (european) management. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Having completed this module, students can identify and address relevant research problems in (european) management or related fields on an advanced academic level. They critically analyze research articles in academic journals and transfer its insights to their own scientific work. They will know how to assess the relevance of research questions, the appropriateness of given tools for analysis, and they can evaluate the implications of their findings for the academic literature and management practice.

<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Master Thesis, ---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own academic research paper on an advanced topic in General Management or related fields.

**Objectives**

Having completed this module, students can identify and address relevant research problems in general management or related fields on an advanced academic level. They critically analyze research articles in academic journals and transfer its insights to their own scientific work. They will know how to assess the relevance of research questions, the appropriateness of given tools for analysis, and they can evaluate the implications of their findings for the academic literature and management practice.

<b>ECTS-Credits</b>	18
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 540
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 18 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	Master Thesis, ---
<i>Management &amp; Economics</i>	---

**Content**

Students apply the skills they have acquired during their master program by writing their own scientific research paper on an advanced topic in International Business or related field. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Having completed this module, students can identify and address relevant research problems in international business or related fields on an advanced academic level. They critically analyze research articles in academic journals and transfer its insights to their own scientific work. They will know how to assess the relevance of research questions, the appropriateness of given tools for analysis, and they can evaluate the implications of their findings for the academic literature and management practice.



<b>ECTS-Credits</b>	24
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 720
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 24 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	Master Thesis

**Content**

Students apply the skills they have acquired during their master program by writing their own academic research paper on an advanced topic in management or economics. The master thesis can serve as a baseline for a PhD-program in Tübingen or elsewhere.

**Objectives**

Students are able to write a thesis in management or economics on an advanced academic level. They review and discuss previous literature in light of their own research question. They theoretically and empirically analyze their main hypotheses by applying state-of-the-art research methods in management or economics.

## MA5\_09 Master Thesis in Data Science in Business and Economics

M.Sc.

<b>ECTS-Credits</b>	30
<b>Workload Hours</b>	Contact Hours: 0      Independent Study: 900
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS, SS
<b>Language of instruction</b>	German or English
<b>Course Type/ Learning Methods</b>	Individual supervision and course in academic writing if applicable / Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written thesis - 30 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful completion of modules within the Core and Specialization Modules worth at least 30 ECTS-Credits. Additional prerequisites may be defined by the supervisor of the Master Thesis. Please see department website for further details.
<b>Person Responsible</b>	See department website

### This course can be taken as part of the following programs/modules:

<i>Accounting and Finance</i>	---
<i>Data Science in Business and Economics</i>	Master Thesis
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	---
<i>European Management/ General Management/ International Business</i>	---
<i>Management &amp; Economics</i>	---

### Content

Students apply the skills they have acquired during their master program by writing their own academic research paper on an advanced topic in Data Science in Business and Economics or related fields.

### Objectives

Having completed this module, students can identify and address relevant research problems in Data Science in Business and Economics or related fields on an advanced academic level. They critically analyze research articles in academic journals and transfer its insights to their own scientific work. They will know how to assess the relevance of research questions, the appropriateness of given tools for analysis, and they can evaluate the implications of their findings for the academic literature and management practice.

## S411 Advanced Time Series Analysis

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (4 SWS), PC-Lab (2 SWS)/ Oral participation, Group work, Self-study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Joachim Grammig

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Econometrics, Specialization Studies Focus Econometrics, Free Elective Studies
<i>Economics</i>	Core Studies Econometrics, Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Core Studies Econometrics, Specialization Studies Econometrics, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Econometrics, Specialization Studies Focus Econometrics, Specialization Studies Focus Economics, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Econometrics Core Module, Specialization Econometrics, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

### Content

The module deals with a rigorous treatment of state-of-the art univariate and multivariate time series methods used in economics and finance. This includes:

1. Autoregressive moving average models
2. Forecasting
3. Regression analysis with stationary and non-stationary time series
4. Unit root tests
5. Structural vector-autoregressive models and cointegration
6. Equilibrium correction and Johansen methodology
7. Amplification of time series methods in macroeconomics and finance using econometric software
8. Conditional heteroskedasticity in financial time series

## Objectives

---

Students master state-of-the-art time series econometrics, both univariate and multivariate. They apply time series methods with awareness of their potential and limitations in macroeconomics and finance. They command an econometric programming language independently and productively to perform empirical analyses involving time series data. They present and discuss their results of the application of time series methods in a scientific fashion.

## S412 Empirical Asset Pricing

M.Sc.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (4 SWS), PC-Lab (2 SWS)/ Oral participation, Group work, Self-study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Portfolio - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Joachim Grammig

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Finance Core Module, Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

Principles of modern financial economics, generalized method of moments- and regression-based estimation and evaluation of asset pricing models, econometric software (Matlab) is used for financial applications in practical course. The theoretical part emphasizes the link of financial economics and the econometric modelling. The methods are applied in a practical class in the PC laboratory.

### Objectives

Students gain practical experience and the theoretical background in the application of econometric methods for the analysis of price formation processes in financial markets. They are able to estimate and evaluate linear and nonlinear factor models and they develop an understanding of the econometric methods and their limitations in asset pricing. Students also learn how to present and discuss their results in a scientific proper fashion, which is dealt with in the practical class. They are able to productively use Matlab for their own analyses in empirical finance, e.g. their master's thesis. Students master important concepts of asset pricing in financial economics and econometric theory, which are closely intertwined.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 60      Independent Study: 210
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), Tutorial (1 SWS)/ Oral participation, Group work, Self-study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Prof. Dr. Joachim Grammig

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Economics, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

The module deals with a rigorous treatment of modern financial economics. This includes:

1. Relationship of state preferences, risk-neutral probabilities and the pricing kernel
2. Existence of a positive stochastic discount factor and fundamental theorem of financial economics
3. Relationship of stochastic discount factor representations of asset pricing models, mean-variance frontier and expected return-beta representation
4. Recent advances in financial economics
5. Implementation and illustrations using computer software (Matlab)

**Objectives**

Students master formally and intuitively the theoretical foundations of modern financial economics and key concepts associated with asset pricing in discrete time.

# S414 Advanced Mathematical Methods

M.Sc.

<b>ECTS-Credits</b>	3
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 60
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (1 SWS), Tutorial (1 SWS)/ Oral participation, Group work, Self-study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (60 minutes) - 3 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	---
<b>Person Responsible</b>	Dr. Julie Schnaitmann

## This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Economics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

## Content

The module covers key concepts in linear algebra and mathematical statistics. It will in particular deal with matrix algebra (including linear independence and eigenvalue theory), quadratic forms, matrix differentiation, difference equations, basic probability theory and statistical inference.

## Objectives

This module is designed for recently enrolled Master students at the School of Business and Economics. The aim is to provide participants with the mathematical tools and the fundamentals of probability theory and statistics which are particularly important for successful completion of the Master programme. The module is designed to review some basic concepts which are covered in standard bachelor courses and will then expand the field to more advanced methods. After completing the module, students will have acquired the basic mathematical and statistical knowledge that is needed to start a Masters degree in Economics/Business Administration.

## S415 Machine Learning in Econometrics

M.Sc.

<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 75      Independent Study: 105
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (3 SWS), PC-Lab (2 SWS)/ Oral participation, Group work, Self-study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Successful participation in either S411 Advanced Time Series Analysis or S422 Advanced Microeconometrics
<b>Person Responsible</b>	Dr. Jantje Sönksen

### This module can be taken as part of the following programs/areas:

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Data Science Techniques, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Econometrics, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

### Content

This module illustrates how machine learning techniques can be used in economic research and applications. It offers a thorough analysis of a variety of tools in statistical learning and links them to econometric analysis. The module focuses on supervised machine learning techniques, such as: decision/regression trees, (logistic) regressions, naïve Bayes, local regressions, nearest neighbors, artificial neural networks, and support vector machines. The lecture also covers hyperparameter tuning methods, various feature selection and regularization techniques, and causal forests. A practical PC-Lab class is an essential part of the module.

### Objectives

Students apply machine learning techniques and understand how these are linked to standard econometrics. They command different machine learning methods and apply them to economic problems using statistical software. They are aware of the respective advantages and shortcomings of these methods and discuss their results critically.



<b>ECTS-Credits</b>	6
<b>Workload Hours</b>	Contact Hours: 30      Independent Study: 150
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS or SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Seminar (2 SWS)/ oral participation, independent study, literature study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Presentation, Assignment, Term Paper - 6 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	See term details
<b>Person Responsible</b>	Prof. Dr. Joachim Grammig

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Economics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Economics, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Finance, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

**Content**

This module is concerned with various and current topics from the field of empirical financial economics and financial econometrics. A particular focus is on applied empirical and theoretical methods in modern financial economics research.

**Objectives**

Students become familiar with the frontier of research in financial economics and econometrics. Upon successful completion of this module, students address important issues in financial economics and financial econometrics. Own empirical and theoretical analyses are summarized in a paper and the findings are presented in class.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	WS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (4 SWS), Tutorial (2 SWS)/ Independent Study, Literature Study
<b>PhD-oriented</b>	yes
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Basic knowledge of probability theory, linear algebra and econometric methods
<b>Person Responsible</b>	Prof. Dr. Martin Biewen

**This module can be taken as part of the following programs/areas:**

<i>Accounting and Finance</i>	Specialization Studies, Elective Studies
<i>Data Science in Business and Economics</i>	Specialization Studies Focus Econometrics, Free Elective Studies
<i>Economics</i>	Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Specialization Studies Econometrics, Specialization Studies Finance, Free Elective Studies
<i>European Economics</i>	Specialization Studies Focus Econometrics, Specialization Studies Focus Economics, Specialization Studies Focus Finance, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Banking, Specialization Finance, Specialization Econometrics, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

**Content**

The module deals with statistical models and methods for the analysis of financial data. The following topics are covered:

- 1) Univariate Return Distributions
- 2) Extreme Value Theory
- 3) Multivariate Return Distributions
- 4) Copulas, Value at Risk
- 5) ARIMA Time Series
- 6) Random Walks, Market Efficiency
- 7) Stochastic Volatility, GARCH Time Series
- 8) CAPM-Model, Performance Measures
- 9) Stochastic Dominance
- 10) Brownian Motion, Stochastic Calculus
- 11) Option Pricing, Black-Scholes-Model

- 12) Neural Networks, Support Vector Machines
- 13) Credit Risk Management

### **Objectives**

---

Students master the most commonly used statistical methods for analyzing financial variables. The module enables them to understand the motivation and derivation of the different methods. Students apply these methods in practical applications using the statistical software Stata.

<b>ECTS-Credits</b>	9
<b>Workload Hours</b>	Contact Hours: 90      Independent Study: 180
<b>Duration</b>	1 Semester
<b>Cycle</b>	SS
<b>Language of instruction</b>	English
<b>Course Type/ Learning Methods</b>	Lecture (4 SWS), Tutorial (2 SWS)/ Independent Study, Literature Study
<b>PhD-oriented</b>	no
<b>Method of Assessment</b>	Lecture: Written Exam (90 minutes) - 9 ECTS / 100% of module grade
<b>Course Work</b>	---
<b>Prerequisite for</b>	---
<b>Prerequisites</b>	Basic knowledge of probability theory, linear algebra and econometric methods
<b>Person Responsible</b>	Prof. Dr. Martin Biewen

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	Core Studies Focus Econometrics, Specialization Studies Focus Econometrics, Free Elective Studies
<i>Economics</i>	Core Studies Econometrics, Specialization Studies Economics, Econometrics, Finance, Elective Track Module Empirical Methods and Data Analysis, Free Elective Studies
<i>Economics and Finance</i>	Core Studies Econometrics, Specialization Studies Econometrics, Free Elective Studies
<i>European Economics</i>	Core Studies Focus Econometrics, Specialization Studies Focus Econometrics, Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization Econometrics Core Module, Specialization International Accounting, Auditing and Corporate Governance, Specialization Econometrics, Specialization HRM and Organization, Free Elective Studies
<i>Management &amp; Economics</i>	Specialization Studies, Free Elective Studies

---

**Content**


---

The module deals with a rigorous treatment of state-of-the art microeconomic methods with applications in different fields of economics. The topics include:

1. Conditional Expectations and Linear Projections
2. Basic Asymptotic Theory
3. Single Equation OLS estimation
4. Single Equation IV estimation
5. Systems of Equations OLS/GLS estimation
6. Systems of Equations IV estimation
7. Linear Unobserved Effects Panel Data Models
8. M-estimation, Nonlinear Regression, and Quantile Regression
9. Generalized Method of Moments and Maximum Likelihood Estimation
10. Discrete Response Models
11. Corner Solutions, Censoring, and Selection Models

12. Treatment Evaluation

13. Duration Analysis

### **Objectives**

---

Students master the state of the art of microeconometric techniques. They understand derivations and proofs. Students are able to assess the applicability and the limitations of the methods in fields such as labor economics, industrial economics, finance, and marketing. Students to apply the different methods in practical applications using the statistical software Stata.

ECTS-Credits	6
Workload Hours	Contact Hours: 30      Independent Study: 150
Duration	1 Semester
Cycle	see online: Weltethos-Institut, Alma
Language of instruction	English
Course Type/ Learning Methods	Seminar (2 SWS)/ See online: Weltethos-Institut, Alma
PhD-oriented	no
Method of Assessment	Lecture: Presentation - 6 ECTS / 100% of module grade
Course Work	Facilitation of discussion and short paper
Prerequisite for	---
Prerequisites	---
Person Responsible	Weltethos-Institut, Dierksmeier, Claus, Prof., Dr. phil.

---

**This module can be taken as part of the following programs/areas:**


---

<i>Accounting and Finance</i>	Elective Studies
<i>Data Science in Business and Economics</i>	
<i>Economics</i>	---
<i>Economics and Finance</i>	---
<i>European Economics</i>	Free Elective Studies
<i>European Management/ General Management/ International Business</i>	Specialization International Business, Free Elective Studies
<i>Management &amp; Economics</i>	Free Elective Studies

---

**Content**


---

This seminar offers a practical overview of the current debate on business ethics and its underlying presuppositions and theoretical foundations. We will take a look at some of the main challenges we are facing as a global community today and their relationship to business. Participating students will work in teams to analyze the impact business makes on specific socio-economic or environmental challenges and provide concrete examples for both, adverse and constructive effects of business conduct on those challenges. These examples will then be analyzed, regarding their ethical content and the legitimacy of different courses of action. This seminar offers an interactive learning experience on the fast growing topic of business ethics and is focused on establishing links between theoretical works and their practical implications.

---

**Objectives**


---

Students analyze the impact business makes on specific socio-economics or environmental challenges and provide examples for both.

Universität Tübingen  
Wirtschafts- und Sozialwissenschaftliche Fakultät  
Fachbereich Wirtschaftswissenschaft  
Modulhandbuch für die Masterstudiengänge  
Stand 01.10.2023

Herausgegeben von der  
Studiendekanin des Fachbereichs  
Wirtschaftswissenschaft