

## LIST OF COURSES TAUGHT BY PIOTR PIECUCH

January 2024 - April 2024  
(Spring 2024):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)

**Instructor**

Graduate course for Chemistry (also Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled 50-minute lectures plus additional about 90 minutes of lecturing per week; 1 office hour; setting up and grading several advanced homework assignments, a midterm test, and a final exam)

September 2023 - December 2023 (Fall 2023):

*Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)

**Instructor**

Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled lectures per week; 1 office hour; setting up and grading homework assignments, two midterm exams, and a final exam)

January 2023 - May 2023  
(Spring 2023):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)

**Instructor**

Graduate course for Chemistry (also Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; 1 office hour; setting up and grading several advanced homework assignments, a midterm test, and a final exam)

January 2022 - May 2022  
(Spring 2022):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)

**Instructor**

Graduate course for Chemistry (also Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; in the initial 3 weeks of the semester replaced by watching prerecorded lecture videos (3 videos per week) and weekly 3-hour Zoom meetings with the students designed to review the lecture material and discussions; 1 office hour; setting up and grading several advanced homework assignments, a midterm test, and a final exam)

September 2021 - December 2021 (Fall 2021):

*Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)

**Instructor**

Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled lectures per week; 1 office hour; setting up and grading homework assignments, two midterm exams, and a final exam)

January 2021 - April 2021  
(Spring 2021):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)

**Instructor**

Graduate course for Chemistry (also Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week replaced by watching prerecorded lecture videos (typically, 3–4 videos per week) and weekly 3–4-hour Zoom meetings with the students designed to review the lecture material and discussions; 1 office hour; setting up and grading several advanced homework assignments, a midterm test, and a final exam)

**DUE TO COVID-19, REPLACED BY VIRTUAL INSTRUCTION**

September 2020 - December 2020 (Fall 2020): *Quantum Chemistry and Statistical Thermodynamics I* (CEM 991)

**Instructor**

Graduate course for Chemistry students

Department of Chemistry, Michigan State University, East Lansing, Michigan

(3 scheduled lectures per week replaced by 2 two-hour lectures plus a review session per week; 1 office hour; setting up and grading homework assignments, two midterm exams, and a final exam)

**DUE TO COVID-19, REPLACED BY VIRTUAL INSTRUCTION**

January 2020 - May 2020 (Spring 2020):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CEM 993)

**Instructor**

Graduate course for Chemistry (also Chemical Physics, Physics, and Computational Mathematics, Science and Engineering) students

Department of Chemistry, Michigan State University, East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; 1 office hour; setting up and grading several advanced assignments, a midterm test, and a final exam)

**DUE TO COVID-19, FROM MARCH 11, 2020 TO THE END OF THE SEMESTER REPLACED BY VIRTUAL INSTRUCTION**

January 2019 - May 2019 (Spring 2019):

*Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CEM 993)

**Instructor**

Graduate course for Chemistry (also Chemical Physics and Physics) students

Department of Chemistry, Michigan State University, East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; 1 office hour; setting up and grading several advanced assignments, a midterm test, and a final exam)

- August 2018 - December 2018  
(Fall 2018):
- Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures per week; 1 office hour; setting up  
and grading homework assignments, two midterm exams,  
and a final exam)
- January 2018 - May 2018  
(Spring 2018):
- Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)
- August 2017 - December 2017  
(Fall 2017):
- Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures per week; 1 office hour; setting up  
and grading homework assignments, two midterm exams,  
and a final exam)
- January 2017 - May 2017  
(Spring 2017):
- Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)

January 2016 - May 2016  
(Spring 2016):

*Special Topics in Physical Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CHEM 580 and PHYSICS 580; offered at Washington University in St. Louis during one-term research leave) and *Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CEM 993; offered to students at Michigan State University via video-recorded lectures and other online materials produced at Washington University in St. Louis)

**Instructor**

Graduate course for Chemistry and Physics students  
Department of Chemistry and Department of Physics,  
Washington University in St. Louis, St. Louis, Missouri;  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(three 90-minute video-recorded lectures per week; one  
office hour; setting up and grading several advanced assignments,  
a midterm test, and a final exam)

September 2015 - December  
2015 (Fall 2015):

*Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)

**Instructor**

Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures per week; 1 office hour; setting up  
and grading homework assignments, two midterm exams,  
and a final exam)

January 2015 - May 2015  
(Spring 2015):

*Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)

**Instructor**

Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)

- August 2014 - December 2014  
(Fall 2014):
- Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures per week; 1 office hour; setting up  
and grading homework assignments, two midterm exams,  
and a final exam)
- January 2014 - May 2014  
(Spring 2014):
- Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)
- January 2012 - May 2012  
(Spring 2012):
- Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)
- September 2011 - December  
2011 (Fall 2011):
- Independent Research* (CEM 420)  
**Instructor**  
Undergraduate course; supervised independent research  
in quantum chemistry  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan (taken by J. Clapham)

- January 2011 - May 2011  
(Spring 2011):
- Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics and Physics) students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; 1 office hour; setting up and grading several advanced assignments, a midterm test, and a final exam)
- January 2010 - April 2010  
(Spring 2010):
- Physical Chemistry Seminar* (CEM 998)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(organizing and overseeing the Physical and Biological Chemistry weekly seminars, grading graduate student seminars)
- January 2010 - April 2010  
(Spring 2010):
- Computational Chemistry* (CEM 888) (with Professors J.F. Harrison, J. Jackson, R.I. Cukier, and M. Feig)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(3 lectures per week; 1 office hour; setting up and grading assignments, laboratory projects, and a final project)
- September 2009 - December 2009 (Fall 2009):
- Physical Chemistry Seminar* (CEM 998)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(organizing and overseeing the Physical and Biological Chemistry weekly seminars, grading graduate student seminars)

- September 2009 - December 2009 (Fall 2009): *Quantum Chemistry and Statistical Thermodynamics I* (CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(3 scheduled lectures per week; 1 office hour; setting up and grading homework assignments, two midterm exams, and a final exam)
- January 2009 - May 2009 (Spring 2009): *Advanced Topics in Quantum Chemistry: Algebraic and Diagrammatic Methods for Many-Fermion Systems* (CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics and Physics) students  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-minute lecture per week; 1 office hour; setting up and grading several advanced assignments, a midterm test, and a final exam)
- January 2008 - May 2008 (Spring 2008): *Chemical Physics Seminar* (CEM 499)  
**Instructor**  
Undergraduate course; lectures/seminars on selected topics and journal articles in chemical physics  
Department of Chemistry, Michigan State University, East Lansing, Michigan  
(1 lecture/seminar per week; taken by 3 students)
- December 1, 2007 (Fall 2007): *Frontiers in Science Weekend Workshop series for Secondary Science Teachers*  
**Instructor**  
Program date: Saturday, December 1, 2007; topic: "Exploring Molecules and Atomic Nuclei with Quantum Mechanics."



- August 2007 - December 2007  
(Fall 2007): *Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures plus one unscheduled lecture per  
week; 1 office hour; setting up and grading homework  
assignments, two midterm exams, and a final exam)
- January 2007 - May 2007  
(Spring 2007): *Advanced Topics in Quantum Chemistry: Algebraic  
and Diagrammatic Methods for Many-Fermion Systems*  
(CEM 993)  
**Instructor**  
Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 additional 60-  
minute lecture per week; 1 office hour; setting up and  
grading several advanced assignments, a midterm test,  
and a final exam)
- August 2006 - December 2006  
(Fall 2006): *Independent Research* (CEM 420)  
**Instructor**  
Undergraduate course; supervised independent research  
in quantum chemistry  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan (taken by B.S. Elkus)
- August 2006 - December 2006  
(Fall 2006): *Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures plus one unscheduled lecture per  
week; 2 office hours; setting up and grading homework  
assignments, two midterm exams, and a final exam)
- January 2005 - May 2005  
(Spring 2005): *Independent Research* (CEM 420)  
**Instructor**  
Undergraduate course; supervised independent research  
in quantum chemistry  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan (taken by J.R. Gour)

January 2005 - May 2005  
(Spring 2005):

*Quantum Chemistry* (CEM 392)

**Instructor**

Undergraduate course for chemistry majors  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled lectures per week; three 2-hour long review  
sessions; designing all homework problems and problems  
for two midterm exams and a final exam and the solution  
sets; grading two midterm exams and a final exam)

January 2005 - May 2005  
(Spring 2005):

*Computational Chemistry* (CEM 888) (with Profes-  
sors J.F. Harrison, J. Jackson, R.I. Cukier, and R.  
Hollingsworth)

**Instructor**

Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up and grad-  
ing assignments, laboratory projects, and a final project)

January 2004 - May 2004  
(Spring 2004):

*Advanced Topics in Statistical Mechanics (Algebraic  
and Diagrammatic Methods for Many-Fermion Systems)*  
(CEM 994)

**Instructor**

Graduate course for Chemistry (also Chemical Physics  
and Physics) students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 scheduled 50-minute lectures plus 1 unscheduled 60-  
minute lecture per week; 2 office hours; 6 very advanced  
assignments, a midterm test, and a final exam)

January 2003 - May 2003  
(Spring 2003):

*Computational Chemistry* (CEM 888) (with Profes-  
sors J.F. Harrison, J. Jackson, R.I. Cukier, and R.  
Hollingsworth)

**Instructor**

Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up and grad-  
ing assignments, laboratory projects, and a final project)

January 2003 - May 2003  
(Spring 2003):

*Introduction to Physical Chemistry II* (CEM 384)

**Instructor**

Undergraduate course for non-chemistry majors  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled lectures per week; three 2-hour long review sessions; designing all homework problems and problems for two midterm exams and a final exam and the solution sets; grading two midterm exams and a final exam)

August 2002 - December 2002  
(Fall 2002):

*General Chemistry* (CEM 141) (Sections 53-65)

**Instructor**

Freshmen chemistry course for non-chemistry majors  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(2 scheduled, 1 hour 20 minute long, evening lectures per week; 2 official office hours; three 2-hour long review sessions; contributions to midterm tests and a final exam)

January 2002 - May 2002  
(Spring 2002):

*Advanced Topics in Statistical Mechanics (Algebraic and Diagrammatic Methods for Many-Fermion Systems)*  
(CEM 994)

**Instructor**

Graduate course for Chemistry (also Chemical Physics and Physics) students

Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 scheduled 50-minute lectures plus 1 unscheduled 90 minute lecture per week; 2 office hours; 6 very advanced assignments, a midterm test, and a final exam)

January 2001 - May 2001  
(Spring 2001):

*Special Topics in Physical Chemistry* (CEM 988) (with Professors J.F. Harrison, J. Jackson, R.I. Cukier, and R. Hollingsworth)

**Instructor**

Graduate course for Chemistry students

Department of Chemistry, Michigan State University,  
East Lansing, Michigan

(3 lectures per week; 2 office hours; setting up and grading assignments, laboratory projects, and a final project)

- August 2000 - December 2000  
(Fall 2000): *Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up assignments and supervising their grading, setting up and grading two midterm exams, and a final exam)
- January 2000 - May 2000  
(Spring 2000): *Special Topics in Physical Chemistry* (CEM 988) (with Professors J.F. Harrison, J. Jackson, R.I. Cukier, and R. Hollingsworth)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up and grading assignments, laboratory projects, and a final project)
- August 1999 - December 1999  
(Fall 1999): *Independent Research* (CEM 420)  
**Instructor**  
Undergraduate course; supervised independent research in quantum chemistry  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan (taken by Mr. J.A. Heist)
- August 1999 - December 1999  
(Fall 1999): *Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up assignments and supervising their grading, setting up and grading two midterm exams, and a final exam)
- January 1999 - May 1999  
(Spring 1999): *Chemical Physics Seminar* (CEM 499)  
**Instructor**  
Undergraduate course; supervised undergraduate research in the area of quantum chemistry and reporting research results in the area of chemical physics  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(1 hour of research lab per week; taken by D.P. Hogan)

- August 1998 - December 1998  
(Fall 1998): *Quantum Chemistry and Statistical Thermodynamics I*  
(CEM 991)  
**Instructor**  
Graduate course for Chemistry students  
Department of Chemistry, Michigan State University,  
East Lansing, Michigan  
(3 lectures per week; 2 office hours; setting up assignments and supervising their grading, setting up and grading two midterm exams, and a final exam)
- January 1997 - April 1997  
(Spring 1997): *General Chemistry* (CHM 137Y)  
**Instructor**  
Undergraduate course for the first year Chemistry and Life or Health Sciences students (two sections, 78 lectures)  
Department of Chemistry, University of Toronto, Toronto, Ontario, Canada  
(gave six lectures and supervised two hours of Study Room per week, participated in setting up and grading a final exam)
- January 1996 - April 1996  
(Spring 1996): *General Chemistry* (CHM 137Y)  
**Instructor**  
Undergraduate course for the first year Chemistry and Life or Health Sciences students (two sections, 78 lectures)  
Department of Chemistry, University of Toronto, Toronto, Ontario, Canada  
(gave six lectures and supervised two hours of Study Room per week, graded a final exam)
- May 1995 - July 1995  
(Spring 1995): *Differential Equations for Chemical Engineers* (MATH 218)  
**Instructor**  
Undergraduate course for the second year chemical engineering students  
Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, Canada  
(gave three lectures and one tutorial per week, set assignments and supervised their marking, set and graded a midterm test, set and graded a final exam)

- October 1994: *Advanced Calculus for Chemical Engineers* (MATH 210)  
**Instructor replacement**  
 Calculus course for the second year chemical engineering students  
 Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, Canada  
 (gave three lectures and one tutorial per week)
- October 1994: *Calculus 3 for Honours Physics* (MATH 227P)  
**Instructor replacement**  
 Calculus course for the second year physics students  
 Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, Canada  
 (gave three lectures and one tutorial per week)
- February 1993 - March 1993: *Quantum Chemistry II* (CHEM 680)  
**Instructor replacement**  
 Advanced course for graduate chemistry students  
 Department of Chemistry, University of Arizona, Tucson, Arizona, U.S.A.  
 (supervised three student seminars per week)
- February 1992 - June 1992 (one semester): Lectures on *Advanced Approaches to Many-Electron Correlation Problem*  
**Instructor**  
 Advanced course for graduate (M. Sc. and Ph. D.) chemistry students  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave four lectures per week, set and graded a midterm test, set and graded a final exam)
- October 1991 - February 1992 (one semester): Lectures on *Diagrammatic Methods in Theory of Many-Electron Systems*  
**Instructor**  
 Advanced course for graduate (M. Sc. and Ph. D.) chemistry students  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave four lectures per week, set and graded a midterm test, set and graded a final exam)
- October 1991 - February 1992 (one semester): *Thermodynamics and Statistical Physics* for the fourth year undergraduate chemistry students  
**Tutorial Assistant**  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave two tutorials per week, set and marked assignments, set and graded two midterm tests)

- February 1992 - June 1992  
(one semester):
- Quantum Chemistry, Group Theory, and Classical Mechanics* seminars and tutorials for the second year undergraduate chemistry students  
**Co-instructor**  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave two lectures and two tutorials per week, set and marked assignments, set and graded two midterm tests, graded a final exam)
- July 1990:
- Calculus 4* (MATH 213B)  
**Instructor replacement**  
 Undergraduate course for the second year science students  
 Faculty of Mathematics, University of Waterloo, Waterloo, Ontario, Canada  
 (gave three lectures and one tutorial per week, set assignments)
- February 1985 - June 1988  
(one semester per year):
- Thermodynamics and Statistical Physics* for the second year undergraduate chemistry students  
**Tutorial Assistant**  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave two tutorials per week, set and marked assignments, set and graded two midterm tests)
- October 1983 - June 1988  
(one semester per year):
- Quantum Chemistry, Group Theory, and Classical Mechanics* seminars and tutorials for the second year undergraduate chemistry students  
**Co-instructor**  
 Institute of Chemistry, University of Wrocław, Poland  
 (gave two lectures and two tutorials per week, set and marked assignments, set and graded two midterm tests, graded a final exam)