ACADEMICS: READ!!!

Budapest Semesters in Mathematics

Links
- Contact & Directions
- Useful: stores around BSM, things to do in BP
- VISA/RESIDENCE PERMIT info
- Summary and Details of the local Health Insurance

24/7 BSM emergency phone number: 0036206285562

Links
- BSM professors, 1985 -
- Local math competitions archive
- BSM undergraduate research: articles
- The American homepage of BSM
- The American homepage of BSME (Budapest Semesters in Mathematics Education)
- The Rényi Institute: its library and directions to RI

FALL 2016

- Welcome letters
  Arrival info, accommodation and other practicalities.
- Academic Calendar
- Schedule of classes
  MUC times
- Syllabi of the courses
- Academic Rules
- ONLINE REGISTRATION
  accessible from Sept 18th

BSM UPCOMING EVENTS (click the event for details)

Monday, September 5
First day of classes
First three weeks are for making final decisions! Registration deadline & feedback session: **February 23rd, Thursday**
During/after the first three weeks

- “Reading courses” can become “regular”
- “Regular” can become “reading”
- Courses may be canceled

based on enrollment data.
Overview of courses
READING COURSES

BIO Combinatorial and computational aspects of bioinformatics schedule @9:45am

LOG Mathematical Logic schedule @9:45am

MCG Modern Convex Geometry schedule @9:45am

STE Statistics through examples schedule @9:45am with Agnes
THE ALGEBRA GROUP

- AL1  Introduction to Abstract Algebra
- AAL  Advanced Algebra
- GAL  Galois Theory
- CMA  Commutative Algebra (@ELTE)
The analysis group:

- **ANT**  Topics in Analysis
- **CLX**  Complex Analysis
- **RFM**  Real Functions and Measures
- **FUN**  Functional Analysis
- **FAN**  Fourier Analysis *(new)*
The Combinatorics group:

- CO1 Intro to Combinatorics -- 1A & 1B
- CO2 Combinatorics of Finite Sets
- BIO Combinatorial and computational aspects of bioinformatics (reading)
- COP Combinatorial Optimization
The Graph Theory group:

- GRT Graph Theory
- EGR Extremal Graph Theory
- AGT Advanced Topics in Graph Theory (@ELTE)
The number theory group:

- **NU1**  Introduction to Number Theory

- **NUT**  Topics in Number Theory — Additive Combinatorics
The problem solving group:

- **DLP** Discovery Learning: The Pósa Method
- **MPS** Mathematical Problem Solving
- **C&P** Conjecture and Proof
- **CPS** Competition Preparation Seminar (non-credit)
The geometry & topology group:

- **NEG** Non-Euclidean Geometries
- **MCG** Modern Convex Geometry (reading)
- **DIG** Differential Geometry
- **TOP** Introduction to Topology
- **ALT** Algebraic Topology
Probability & statistics group:

- **PRO** Probability Theory
- **STE** Statistics through examples (reading)
Logic & Set Theory:

- LOG  Mathematical Logic (reading)
- SET  Seth Theory
Additional classes:

- GMT Game Theory
- MCR Mathematical Cryptography
- ILG Introduction to Lie Groups
- MAP Quantum Logic and Quantum Probability
- THC Theory of Computing
RES Research Opportunities

1. Fibered knots and grid homology
   email: stipsicz@renyi.hu

2. Hausdorff dimension of unions of lines
   Wed 2-4, room TBA

3. Mixed graphical models
   Wed 2-4, room TBA

4. Packing sparse degree sequences
   schedule @9:45am

5. What is unavoidable - Forbidden Configurations
NON CREDIT courses:

- **CLA**  Classical Algebra
  weeks: 2-4, Mo 8-10am, Thu 2-4pm, room 102

- **CPS**  Competition preparation session
  Mo 4-6pm room TBA

- **HUP**  Hungarian +
  Wed 5-7pm
ELTE COURSES:

START week of Feb 13\textsuperscript{TH}

when TBA

- Discreet Dynamical Systems
- Commutative Algebra
- Advanced topics in Graph Theory
BSME courses

Cross listed:

**DLP** Discovery Learning: The Pósa Method
BSME courses:

**OBM** Classroom Observations in Mathematics  
(Fruzsina Kollányi / Réka Szász)

**PSM** Problem Solving in Secondary School Mathematics  
(Zoltán Gyenes)

**CBG** Concept Building through Games and Manipulatives  
(Anna Kiss)

BSME internships:

Derkovits School

Kalunba: Refugee Integration Program
NON-MATH COURSES:

HL1  Beginner Hungarian Language
HL2  Intermediate Hungarian Language --- A and B versions
HUC  Hungarian Art and Culture
PHI  Philosophy of Mathematics
FILM Introduction to Cinema
HMS  History of Modern Science
NO CLASS 1st Thursday

NU1 Intro Number Theory
Classes start at 15 minutes past the hour (e.g. 10:15am) and an “hour” lasts 45 minutes

Special arrangements:

**THC** Mo 12:30pm – 2pm (no break)

**TOP** We, Fri 8:30am – 10am (no break)
Classrooms

* 104, 105, 206
* C1, C2 and C3 are in the small house across the courtyard.
* T1 is also a classroom approachable through the courtyard
Your paid tuition covers as much as five of the math courses and as many of the non-math courses OFFERED by BSM as you wish.

You can take (free of charge) one AIT course or McDaniel College courses
Once again,

REGISTRATION DEADLINE:
February 23rd Thursday, NOON
and feedback session 4:00 pm

REGISTRATION STARTS THE 2nd WEEK

“Verification of Enrollment Form”
is available as soon as you register.
COUNSELORS:

- **A through G** - Dezso Miklos;
- **H through M** - Csaba Szaboa;
- **N through Z** - Agnes Szilard;
<table>
<thead>
<tr>
<th>Advisor</th>
<th>1st Week</th>
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<tbody>
<tr>
<td>Dezső Miklós</td>
<td>Monday 11am-1pm</td>
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<td>Tuesday 10 am - noon</td>
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<td></td>
<td>Thursday 10-10:30 (sharp)</td>
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<td>Friday 9 - 11am</td>
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<tr>
<td>Csaba Szabo</td>
<td>Tuesday 10am-12:15pm</td>
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<tr>
<td>Ágnes Szilárd</td>
<td>Wednesday 10-11:30 am</td>
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<td>Friday 10-11:30 am</td>
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DURING THE SEMESTER:

- DROPPING A COURSE – by May 12th, Friday noon, the latest
- Switching to AUDIT
Leaning disabilities and mental health

- Special accommodation for learning disabilities
- Mental Health Problem Counseling Services at College International (BSM)
TEXTBOOKS:

- sold weekly FOR FORINTS ONLY
- some used at 60%
- full refund till February 23rd
- 50% refund at the end of semester

Handouts cannot be refunded!!!!
Libraries:

- Reference Library in 218
- Renyi Institute Library
- “Szabó Ervin” Metropolitan Library
WHERE TO STUDY

- reading room in 205 - open 7:30am - 8pm.
- rooms 104, 105, 206, *when available*, 7:30am - 8pm
- rooms 004-007 weekdays 8-10pm
- On the weekend the BSM building is closed.
- CEU library (open on weekends)
- Szabo Ervin Metropolitan library
- Hungarian students also like to study in cafe's
LET US KNOW!