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**Qualifying Exam**

**Archives |**

**Department of**

**Mathematics**

2 AUGUST 2008

TOPOLOGY EXAM

Solution. First of all,

observe that if  $g: Y \rightarrow V$

is a smooth map with

regular value  $v \in V$ ,

then the tangent space

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to the submanifold  $Z = g^{-1}(v)$  at any point  $y$

$\in Z$  is the kernel of the derivative  $dg_y: T_y(Y) \rightarrow T_v(V)$ . In fact, since  $g$  is

constant on  $Z$ , we have that  $dg_y$  is zero on

$T_y(Z)$ , so that  $T_y(Z) \subset \ker(dg_y)$ . But  $v$  is a

regular value,

**TOPOLOGY/GEOMETRY QUALIFYING  
AUGUST 8, 2008**

**Problem 1.**

2. Munkres, Topology, A First Course, Ch 8. 3.

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Bredon, Topology and  
Geometry, Ch III. 4.

Massey, Algebraic  
Topology, an

Introduction, Chs 2, 4,  
5 (This book gives a  
more complete

treatment of topics  
such as van Kampen's  
theorem and covering  
spaces than some of  
the other references.)

3. Algebraic Topology -  
Homology Theory

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Algebraic topology  
occupies a very

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important position in  
modern mathematics.

In many ways it is a microcosm of 20th century mathematics, illustrating features such as the increasing emphasis on global questions, the importance of functoriality, and the use of rather general and abstract machinery to solve quite specific problems.

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#### **Topology 290 graduate course, 2019-20**

Focus on one Exam at a time: Try to get one QR done at a time. You can study for multiple quals at a time, but study more for one particular area, that you feel the most confident about. Form study groups: Study groups can help you keep you focused and accountable, providing structure to keep your

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discipline up.  
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**Advice from PhD  
Students on  
Studying for QR  
Exams - Advice ...**

Ph. D. Qualifying  
Exams This page  
contains syllabi for the  
written qualifying  
exams in algebra,  
analysis and  
geometry/topology and  
copies of past exams.  
Hard copies of the  
syllabi and past exams  
from 2006-present are

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available in the  
graduate office.

**Ph. D. Qualifying  
Exams - Department  
of Mathematics**

Submit one form for each exam you wish to take. If you sign up for an exam and you decide not to take it, inform the Graduate Coordinator. Note: No electronic devices of any kind allowed. Bring with you any food/beverages that

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you'd like to have during the exam, as you will not be allowed to leave the exam room to get them.

## **Qualifying Exams | Department of Mathematics**

Qualifying Exams.

Qualifying exams are administered twice a year (January and August). Students who intend to take a particular qualifying exam must sign-up for

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the exam by contacting the Graduate Program Assistant during the sign-up period. The schedule for the Qualifying Exams for January, 2021 is:

## **Past Qualifying Exams, Department of Mathematics, Texas A ...**

Algebra Qualifier  
Syllabus January 2020  
May 2019.

Monday-Friday: 8:00

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a.m.-5:00 p.m. This is

a sciences area of the

College of Arts and

Sciences.

**PhD Qualifying**

**Exams/Masters**

**Comprehensive |**

**Department of ...**

Sample Exams. Sample

Exam 1; Sample Exam

2; Sample Exam 3;

Sample Exam 4; Fall

2016 Exam; Fall 2017

Exam; Spring 2018

Exam; Spring 2020

Exam; More recent

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applied math quals;

Topology exam. The

topology qualifying

exam covers topics in

algebraic topology.

Material

## **Qualifying exams | Department of Mathematics**

To better prepare for your upcoming examinations, you can take a look at Past Qualifying Exams. This will give you a mental picture of what you

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might be facing.

**Past Qualifying  
Exams | Harvard  
Mathematics  
Department**

USC Graduate Exams -  
Geometry and

Topology Alec

Sahakian Intro Hi

everyone, here are my  
solutions to some of

USC's qualifying

exams. A lot of the

solutions here are ones

I came up with myself,

but many other ones

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are adapted from ideas  
that I found either  
online or in textbooks,

**Qualifying exam -  
Geometry and  
topology**

Graduate Qualifying  
Exams. Packets of past  
exams are available for  
download in each of  
the following areas:  
Algebra; Analysis;  
Applied Statistics

**USF :: Department  
of Mathematics &**

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**Statistics**

2013 Fall exam — Q3

solution (undergrad

e&m) I believe that the

denominators on

equations 4 and 5

should be (in LaTeX)

$B^2 \ell^2$ , not

$B^2 L^2$ . — Sheena

Patel. Here is a Google

Sheet that categorizes

a number of physics

qualifying exam

questions. If you find it

helpful, please

consider helping to edit

and add to the

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document (just ask me  
...  
Exam Solutions

**UCSD Physics PhD  
Qualifying Exams  
and Solutions**

Graduate Program  
Qualifying Exams.

Doctoral students must  
take quals in three of  
the six available areas:

- (1) Numerical  
Analysis/Linear  
Algebra,
- (2) Analysis,
- (3) Algebra,
- (4) PDEs,
- (5) Algebraic Topology,
- and (6) Geometry.

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Please see the PhD Handbook for more details on the exams.

**Department of  
Mathematics:  
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The qualifying exams in Algebra and in Analysis are offered on different days, the same week. On the day of each exam, Part A is given in the morning, while parts B and C are given in the afternoon.

It is possible for a

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student to pass Part A in one attempt, and Part B or C at a different date.

## **Old Qualifying Exams | Department of Mathematics**

Students often stress a lot about the QR Exams. Here we gather some advice from students who have made it through this process. For details on the Qualifying Review Process, please see the

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official math

department webpage. It

is important to note

that the Qualifying

Review is not just a

sequence of exams:

each student is

carefully discussed by

the Doctoral

Committee to

determine readiness to

...

**Qualifying Review -**

**Advice and**

**Resources for Math**

**Graduate ...**

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The approved combinations for the two qualifying exams are. Applied Math: Numerical Analysis and Analysis I. Statistics: Statistics and Analysis II. Pure Math: Any combination of Algebra, Analysis I, Analysis II, Combinatorics, and Topology such that the course sequences are disjoint.

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**Mathematics**

**Graduate**

**Organization (MGO)**

**- Syracuse ...**

There are two types of qualifying exam: the Basic exam and the Area exams. The Basic exam is designed to be passed by well-trained students before they commence study at UCLA. It examines fundamental topics of the undergraduate mathematics curriculum. The Area

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exams are graduate

level exams. For each

Area exam there is a

preparatory course ...

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