

In order to build the authorization list, we need two things:

- 1) map every Math course section to an admin unit;
- 2) determine a single instructor/course-coordinator to fill out the form.

To start on this, here is a query:

```
odyssey_dev=> select * from (
    select term_id, course_subject || ' ' ||
course_catalog as course, section_component || ' ' ||
section_code as section, course_id, offering_id,
class_id, department_code, section_title, section_units,
section_grade_basis, combined_id from cls_section natural
join cls_offering natural join cls_course where (term_id,
group_code, section_session, section_type,
section_status, career_code) = ('1125', 'MAT', 1, 'E',
'A', 'UG')) t
    left join (
        select term_id, class_id, array_agg
(instructor_name), array_agg (instructor_userid) from
cls_instructor natural left join cls_instructor_lookup
where term_id='1125' group by term_id, class_id) s using
(term_id, class_id)
    order by course, section;
term_id | class_id |   course   | section | course_id |
offering_id | department_code
|          section_title          | section_units |
section_grade_basis | combined_id
|          array_agg              | array_agg
-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+
-+-----+-----+-----+-----+-----
```

```

1125 | 3554 | ACTSC 221 | LEC 001 | 3290
| 1 | STATACTSC | Mathematics of
Investment | 0.5 |
NUM | {"Blake William Peter
Thomas"} | {pblake}
1125 | 3370 | ACTSC 231 | LEC 001 | 3293
| 1 | STATACTSC | Mathematics of
Finance | 0.5 |
NUM | {"Freeland R
Keith"} | {rkfreela}
1125 | 3738 | ACTSC 231 | LEC 002 | 3293
| 1 | STATACTSC | Mathematics of
Finance | 0.5 |
NUM | {"Freeland R
Keith"} | {rkfreela}
[....]

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This pulls all Math Faculty sections, considering only undergrad, on-campus sections, and shows what we know about their instructors.