

# NEIS API 연동 결과 보고서

학사일정 자동 동기화 및 학교 검색 시스템 최종 검증

Total Tests: 17 / 17 PASSED

## ○ SCHOOL SEARCH

```
[  
 {  
   "atpt_code": "B10",  
   "sd_code": "7091427",  
   "name": "대치중학교",  
   "school_type": "middle",  
   "address": "서울특별시 강남구 남부순환로378길 39"  
 },  
 {  
   "atpt_code": "B10",  
   "sd_code": "7091380",  
   "name": "서울대치초등학교",  
   "school_type": "elementary",  
   "address": "서울특별시 강남구 양재천로 363"  
 }  
 ]
```

## ○ SCHOOL LIST

```
[  
 {  
   "id": 1,  
   "name": "대치고등학교",  
 }
```

```
        "atpt_code": "B10",
        "sd_code": "7010057",
        "school_type": "high",
        "color": "#f97316",
        "enabled": true,
        "last_sync_at": "2026-02-08T23:01:33.289937",
        "created_at": "2026-02-06 00:48:28",
        "event_count": 130
    }
]
```

## ○ CALENDAR

```
{
  "year": 2025,
  "month": 3,
  "events": [
    {
      "id": 1,
      "school_id": 1,
      "school_name": "대치고등학교",
      "school_color": "#f97316",
      "date": "2025-03-01",
      "end_date": null,
      "title": "토요휴업일",
      "category": "other",
      "source": "neis"
    },
    {
      "id": 2,
      "school_id": 1,
      "school_name": "대치고등학교",
      "school_color": "#f97316",
      "date": "2025-03-03",
      "end_date": null,
      "title": "대체공휴일",
      "category": "holiday",
      "source": "neis"
    },
    {
      "id": 3,
      "school_id": 1,
```

```
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-04",
        "end_date": null,
        "title": "입학식",
        "category": "event",
        "source": "neis"
    },
    {
        "id": 4,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-04",
        "end_date": null,
        "title": "개학식",
        "category": "vacation",
        "source": "neis"
    },
    {
        "id": 5,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-08",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    },
    {
        "id": 6,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-15",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    },
    {
        "id": 7,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-22",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    }
]
```

```
        "category": "other",
        "source": "neis"
    },
    {
        "id": 8,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-29",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    }
],
"exam_periods": []
}
```

## ○ HOLIDAYS

```
[
{
    "id": 2,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-03-03",
    "end_date": null,
    "title": "대체공휴일",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 15,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-05-05",
    "end_date": null,
    "title": "어린이날",
    "category": "holiday",
    "source": "neis"
}
```

```
},
{
    "id": 16,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-05-06",
    "end_date": null,
    "title": "대체공휴일",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 21,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-06-03",
    "end_date": null,
    "title": "대통령 선거일",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 22,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-06-06",
    "end_date": null,
    "title": "현충일",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 50,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-08-15",
    "end_date": null,
    "title": "광복절",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 58,
    "school_id": 1,
    "school_name": "대치고등학교",
```

```
        "school_color": "#f97316",
        "date": "2025-10-03",
        "end_date": null,
        "title": "개천절",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 60,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-10-06",
        "end_date": null,
        "title": "추석",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 61,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-10-07",
        "end_date": null,
        "title": "추석연휴",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 62,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-10-08",
        "end_date": null,
        "title": "대체공휴일",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 63,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-10-09",
        "end_date": null,
        "title": "한글날",
        "category": "holiday",
        "source": "neis"
    }
]
```

```
        "source": "neis"
    },
{
    "id": 81,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-12-25",
    "end_date": null,
    "title": "성탄절",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 83,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2026-01-01",
    "end_date": null,
    "title": "신정",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 119,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2026-02-16",
    "end_date": null,
    "title": "설날연휴",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 120,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2026-02-17",
    "end_date": null,
    "title": "설날연휴",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 121,
    "school_id": 1,
```

```
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2026-02-18",
        "end_date": null,
        "title": "설날연휴",
        "category": "holiday",
        "source": "neis"
    }
]
```

## ✓ TEST RESULTS

```
=====
 test session starts
=====
platform linux -- Python 3.10.12, pytest-9.0.2, pluggy-1.6.0 --
/mnt/d/progress/mathesis/node15_school_calendar/backend/venv/bin/python
cachedir: .pytest_cache
rootdir: /mnt/d/progress/mathesis/node15_school_calendar/backend
configfile: pytest.ini
plugins: anyio-4.12.1, asyncio-1.3.0, bdd-8.1.0, cov-7.0.0
asyncio: mode=auto, debug=False,
asyncio_default_fixture_loop_scope=None,
asyncio_default_test_loop_scope=function
collecting ... collected 17 items

tests/test_neis_client.py::test_학교명_검색_성공 PASSED
[ 5%]
tests/test_neis_client.py::test_짧은_키워드_검색 PASSED
[ 11%]
tests/test_neis_client.py::test_존재하지_않는_학교_검색 PASSED
[ 17%]
tests/test_neis_client.py::test_학사일정_조회_성공 PASSED
[ 23%]
tests/test_neis_client.py::test_이벤트_카테고리_자동_분류 PASSED
[ 29%]
tests/test_neis_client.py::test_날짜_포맷_변환 PASSED
[ 35%]
tests/test_schedule_sync.py::test_단일_학교_일정_동기화 PASSED
[ 41%]
tests/test_schedule_sync.py::test_동기화_후_일정_조회 PASSED
[ 47%]
tests/test_schedule_sync.py::test_캘린더_뷰_데이터_조회 PASSED
```

```
[ 52%]
tests/test_schedule_sync.py::test_카테고리별_일정_필터링 PASSED
[ 58%]
tests/test_schedule_sync.py::test_존재하지_않는_학교_동기화_시도 PASSED [ 64%]
tests/test_school_management.py::test_neis에서_학교_검색 PASSED
[ 70%]
tests/test_school_management.py::test_학교_등록 PASSED
[ 76%]
tests/test_school_management.py::test_중복_학교_등록_방지 PASSED
[ 82%]
tests/test_school_management.py::test_학교_목록_조회 PASSED
[ 88%]
tests/test_school_management.py::test_학교_정보_수정 PASSED
[ 94%]
tests/test_school_management.py::test_학교_삭제 PASSED
[100%]

=====
warnings summary
=====

main.py:23
/mnt/d/progress/mathesis/node15_school_calendar/backend/main.py:23:
DeprecationWarning:
    on_event is deprecated, use lifespan event handlers instead.

    Read more about it in the
    [FastAPI docs for Lifespan Events]
(https://fastapi.tiangolo.com/advanced/events/).

@app.on_event("startup")

venv/lib/python3.10/site-packages/fastapi/applications.py:4495

/mnt/d/progress/mathesis/node15_school_calendar/backend/venv/lib/python3.1
packages/fastapi/applications.py:4495: DeprecationWarning:
    on_event is deprecated, use lifespan event handlers instead.

    Read more about it in the
    [FastAPI docs for Lifespan Events]
(https://fastapi.tiangolo.com/advanced/events/).

    return self.router.on_event(event_type)

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
=====
tests coverage
=====

----- coverage: platform linux, python 3.10.12-final-0
-----
```

Name	Stmts	Miss	Cover	Missing
<hr/>				
database/__init__.py	0	0	100%	
database/connection.py	18	0	100%	
models/__init__.py	0	0	100%	
models/schemas.py	58	0	100%	
routers/__init__.py	0	0	100%	
routers/schedules.py	101	29	71%	30-34, 37-38, 41-42, 73, 106-109, 115-119, 209-222
routers/schools.py	71	10	86%	56-57, 62-63, 66-75, 89, 101
services/__init__.py	0	0	100%	
services/neis_client.py	70	16	77%	11-12, 24, 37-42, 54- 55, 91-92, 97, 99-100
<hr/>				
TOTAL	318	55	83%	
<hr/> <hr/> <hr/>				

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