```
@startuml
!theme plain
hide circle
skinparam linetype ortho
skinparam shadowing false
skinparam roundCorner 10
entity "User" as user {
 * user_id (PK)
 username
 email
 password_hash
 role
}
entity "Category" as category {
 * category_id (PK)
 name
 description
}
entity "Course" as course {
 * course_id (PK)
 title
 description
 price
 instructor_id (FK)
}
entity "Lesson" as lesson {
 * lesson_id (PK)
 title
 description
 course_id (FK)
}
entity "Enrollment" as enrollment {
 * enrollment_id (PK)
 user_id (FK)
 course_id (FK)
 enrollment_date
```

```
progress
 completed_date
}
entity "Review" as review {
 * user_id (PK, FK)
 * course_id (PK, FK)
 rating
 comment
}
entity "CourseCategory" as course_category {
 * course_id (PK, FK)
 * category_id (PK, FK)
}
entity "Certificate" as certificate {
 * certificate_id (PK)
 issue_date
 unique_url
 enrollment_id (FK)
}
user ||--o{ course
course ||--|{ lesson
user ||--o{ enrollment
course ||--o{ enrollment
enrollment ||--o| certificate
user ||--o{ review
course ||--o{ review
course ||--o{ course_category
category ||--o{ course_category
@enduml
```

